To learn to classify is in itself an education

Alex. Bain

Decimal Classification

and

Relativ Index

for libraries, clippings, notes, etc.

Edition 8

By

Melvil Dewey MA LL.D

Forest Press
Lake Placid Club N Y
1913
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Decimal Classification

Corrections and additions in Editions 10 and 11

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The only way to make these corrections of any value is to clip them and insert them in their respective places in your copy of the Classification, or, when changes are slight, make them with pen. Index corrections, being in all cases short, are best made with pen, and are therefore printed on both sides of the page; when printed on back of corrections for tables (see p. 13–14 and 29–30) the index corrections should be made before the corrections for tables, to allow for clipping the latter without losing the former.

Please send, for benefit of others, any further corrections and additions which you note as desirable, address:

Dorcas Fellows
Editor, Decimal Classification
State Library, Albany, N Y

Edition 11, revised and enlarged, was issued in Nov. 1922; cloth $8, Chivers duroflexil half niger $9. Copies with tabs for either tables or index may be had for 50 cents extra; for both tables and index, $1 extra.
Edition 10: tables

Corrections, additions and notes, in numeric order of tables

Words in italics are explanatory or quoted from tables to show connection only. Heds and notes without any italics are to be inserted in their numeric place, preferably by clipping, then mounting on marjin and drawing tracer to proper point of insertion. In your copy find each of the numbers below and correct the heding belonging to it to agree with this list; e.g. in the hed for 022.69 change Residence rooms to Residence quarters; insert as new heding, 027.42 Special kinds of public libraries, with its note; on 027.7 ad university to heding, also ad note. If in doubt ask editor for fuller explanation.

021.65  
At end of note ad Book wagon

.74  
Note Discussion of use of newspaper columns (editorials, articles, letters, new book lists, etc.) to secure interest

022.68  
Other rooms Lavatories, etc.
For health, comfort or convenience

.69  
Residence quarters

.918  
Counters

.935  
Magazine and newspaper racks, files, etc.

025.125  
At end of note ad ; for newspaper publication of new book lists, see 021.74

.17  
Note For general discussions of arrangement, care and use.

.171  
Manuscripts, archives and rarities

027.42  
Special kinds of public libraries
General discussions of county or rural libraries, etc.

.7  
College, university
For libraries of professional and technical schools see 026

091  
Note After Photographs of mss ad , when more valuable for subject matter,

137  
Personality
Temperaments, idioscrasy

174.4  
Merchants Business men Business virtues and vices

.5  
Speculation Mammonism Avaris

.6  
Gambling Lotteries
See also 175 below

.7  
Honor, honesty Dishonesty
Compact, promis; chicanery, trickery

177.5  
Note After Brahmanism ad , and 323.31 Nobility, wealthy clas

178.6  
Inebriates
Discussion, reformation. For reformatories and inebriate asylums see 362.8

179.2  
Cruelty
Note Omit Including and supply Societies for preventing cruelty to children and also

230  
Note Ad
Clas here polemics either offensiv or defensiv, when distinctly doctrinal; but clas in 280 history of a sect, even if larjly controversional and of a limited period. Clas controversy about a special doctrin with its subject; e.g. controversy on the atonement 232.3

252  
Note When too varied for any of the subheds .1-.9, may be divided with .0 by churches and sects, like 280: e.g. protestant episcopal sermons 252.03, but a collection of bishop's addresses 252.1.
Note See also 269 Parish missions. 377.5 Missionary schools. Missions in special countries or places covering the work of several sects go under the geographically divided Religious history 274-275. The mission of a single sect in a special country or place goes with the history of the sect in 282-289.

271.1 Benedictines founded A.D. 529
.12 Cistercians " " 1098 (See 271.72 ed. 9)
.125 Trappists " " 1150 (See 271.74 ed. 9)
.36 Capuchins " " 1525 (See 271.74 ed. 9)
.72 Transferd to .12 above
.74 " " 125 & .36 above

286 Baptist Immersionist
.1 Calvinistic or Regular
Including Arminian or general baptists, reunited with Calvinistic in 1891
.4 Old school (Primitiv, Antimission or Hardshel)
.5 Other baptist sects
May be clasd if preferd with any of the larger sects which they most closely resemble or of which they ar offshoots
.6 Disciples (Campbellite or Christian)
.7 Adventists
.9 Other immersionists

287.7 Methodist protestant

289 Other Christian sects
.2 Transferd to 286.6
.3 " " 286.7
.5 Christian science (Catholic apostolic transferd to .9)
.9 Minor Christian sects

320.8 Polygrafy

328.22 Note Uniformity of law on same subject in different states or countries

332 Private finance
.3 Loan institutes and special loans
.4 Money Coins and coinage

333.5 Note Clas here general works on rent
.7 Special classes of land: forests, pasture, waste
.9 Water rights: littoral, riparian, irrigation

336 Public finance
Federal and state. For local finances see 352.1

.14 Note Chanje 370.12 to 379.123
.23 Personal property
.27 Excise, licenses, special taxes
Liquor, dog, legacies, stamp duties
For other relations see License in Relativ index following tables

339 Note Conservation; restrictions on use or waste of materials, including general works covering natural resources. See also Pauper, Pauperism, Welch, in Relativ index following tables

342.3 Systems, commentaries

355.2 Military resources
.21 Preparedness
Rediness of resources for mobilisation
.22 Men Recruitment
Note like note to .2 in ed. 9
CORRECTIONS AND ADITIONS IN ED. 10

355.24 Raw material
   Agricultural, mineral, etc.
   .25
   .26 Manufactures, industries
   .27 Transportation
   Roads, railroads, canals, ships
362.6 Aged Infirn Bereft
   Mothers pensions Aid in cases of death
   .7
   Note Child welfare
369.186 Societies arising from Great war of 1914-19
371.3 Methods of instruction and study
   .33 Lectures Oral and visual instruction
   .335 Visual instruction Lantern slides
   .38 Laboratory method
   .916 Crippled
374
   Note Omit Choice of vocation for life
   .1
   Note 2 Change 374.1 to 374.19
   " 374.1042 to 374.1942
   " 374.102 to 374.1902
   Note 4 Vocational guidance Choice of vocation is cast here because usually discuss
   with self education and closely related to it and preparation for life, and is also often
   determined thru personal advice or conversation
   .25
   Note Ad 371.392, 371.393
   .28 Community centers
   Whole community as a club of varied interests. Put here discussion of use of school
   buildings for various community purposes
378.36 Student income and expenses
   .362 Loan funds Student aid societies
   .364 College employment bureaus Faculty committees
   Other organizations for securing work for students
   .365 Student earnings
   Working way thru college Ways of earning
   .368 Student expenses: extravagance, economy
380
   Note Public utilities. The technical side of these questions goes mostly in 650 Useful arts.
   Here belong discussions of social and political relations.
   .16 Government control of public utilities
388 Local transit: city and interurban
551
   Note Including geophysics (physiography, physical geography) and geochemistry broadly
   treated; see also 551-94. For Cosmic geography, see 323
   .5 Meteorology Climate
   .56 Omit
   .94 Geochemistry
   Chemic changes: heat. See also note to 531
572.7 Savages: races divided by practises
   Class description of savages of special country in 914-919; e.g. Australian bushmen 919.4
613.94 Stirpiculture Eugenics
614.142 Vacant
   .143 Vacant
   .146 Mortality of different occupations
   See also 613.6
   .147 Mortality from special diseases Cauzes of death
   .15 Morbidity
   .16 Vacant
Manipulation Exercise
Massage, osteopathy, curative gymnastics. See also hygiene 613.71 Gymnastics
Ad Radiotherapy

Note Mental condition as affecting disease; occupation as remedy

Omit

Note See also 624.157 and 721.17 Subaqueous foundations

Sewage and its disposal
Domestic ashes, garbage and refuse

Agriculture
The headings given below constitute a 4-figure outline of additions, the detailed development of which, together with that of the 4-figure divisions previously used, covers 48 pages

1 Rural life
6 Societies, clubs, conferences

The farm, farmsted Soil
1 Farm economics
2 Farm buildings
3 Farm machinery
4 Land, soil
5 Tillage and farm operations
6 Reclamation Drainage
7 Irrigation, water supply
8 Climate, roads, etc.

Hindrances: blights, pests, insects
1 Elemental destruction Protection
2 Galls Cecidiology
3 Bacteria and bacterial diseases
4 Fungi
5 Parasitic and injurious plants
6 Injurious animals
7 Injurious insects
8 Diseases and injuries
9 Means of protection

Field crops: grains, grasses, fibers, etc.
1 Forage crops: grasses
2 " " legumes, etc.
4 Root crops
5 Textil fibers, cordage, plaiting, basket, etc.
6 Sugar plants and starch
7 Alkaloidal plants
8 Perfumes, spices, condiments, etc.

Cattle Greater ruminants
Sheep, goats Smaller ruminants
Camels transferred to 636.2

Butter
Cheese

Press work: making ready Color printing Cuts

Note Running of trains, train and boat timetables, luggage and freight handling, lists of sailings: crews and shifts, disciplin, etc.
For mechanical interrelations of track and rolling stock see 625.2
For reports, government regulation, rate schedules, etc. see 385 for railroads, 386 for canal and 387 for river and ocean transportation
695.1 Wood: shingle

737 Note Artistic and historic side. See also 332.4 Coins and coinage, as money

744 Note Instructions for architectural and other mathematical drawing, with demonstrations (if any) subsidiary Textbooks with mathematical demonstrations in scientific order or better in 515

772 Processes Silver: daguerreotype, talbotype Collodion: ambrotype, etc. Dry plate Color fotografy

773 Gelatin and pigment: woodburytype Carbon: lambertype, autotype, etc.

774 Gelatin and printers ink Albertype, heliotype, autotype, etc.

810 Note Includes Canadian English, which may be kept separate by prefixing C; e.g. C811 Canadian poetry

811.44 Winter, William 1836-1918
813.46 James, Henry 1843-1916
820 Note Canadian literature may be clast as British, if preferd, but separated by prefixing C to 820. See note to 810

839.746 6 Karl Rupert Nyblom 1832-1907
841.86 Deroüède, Paul 1846-1914
922.6 Baptist Immersionist

82 Omit
83
85 Christian science (Omit Catholic apostolic)

940 Europe From fall of Western empire (Rome) A. D. 476
1 Medieval Europe 476-1453 For Byzantine empire see 940-5
11 Rise of new nations 476-800
14 Age of feudalism 800-1100 See also 321.3 Feudalism (Political science) Charlemagne 768-814 Norman conquests
17 Age of chivalry 1100-1453 To fall of Eastern empire (Constantinople) 1453
18 Crusades 1096-1270 See also church history, 270.4-5
2 Modern Europe 1453-
21 Renaissance period 1453-1517 Discoveries and inventions
22 Age of the reformation 1517-1789
23
24 30 years war 1618-48
25
26
27 Napoleonic period 1789-1815
28 19th century 1815-1914
29
CORRECTIONS AND ADDITIONS IN ED. 10

940.3 Great war 1914-19
   A somewhat more detailed expansion is printed in ed. 10
   .31 Political history
   .32 Diplomatic history
     See also 940.31-2314 Political history
   .33 Groups of countries: allies and neutrals
     As a body; for individual countries see 940.34-.39
   .34-.39 Individual countries
     Divided like 940-999
     Under each country farther subdivision may be made with the following numbers, if
     its part in this war is clast here insted of with the rest of its history:
     01 Political history Causes
     02 Diplomatic "
     03 Local (states, counties, provinces, cities)
     04 Military organization
     Clas operations in 940.4
     05 Aspects: economic and other
     06 Celebrations
     07 Prisons, etc.
     08 Personal narratives
     09 Illustrative
   .4 Military history
     Including frightfulness, atrocities as military expedient
   .41 Land operations
   .42-.43 Special campaigns and battles
   .44 Air warfare
   .45 Naval history
   .46 Celebrations, commemorations
     Usually better clast with event commemorated
     For American patriotic societies of this war see 369.186
   .47 Prisons, hospitals, charities
   .48 Personal narratives, secret servis
   .49 Illustrative material
     Subdivided like 973.79
     For special collections; but most material should be clast with its subject; poetry,
     drama, etc. with the literatures to which they belong
   .5 Later 20th century
     Including works on 20th century as a whole
   .6-.913 Material transferred to .21-.5

943.08 New German empire 1866-1918
   William II 1888-1918; Great war 1914-19 and downfall of empire
   .085 German republic 1918-
   .1
     Note By peace of Versailles, 1919, most of Posen (.13) and parts of East Prussia
     (.11), of West Prussia (.12) and of Silesia (.14) were restored to Poland. Danzig (.12)
     as part of Poland made free city with 729 sq. mi. of territory
   .4
     Note In 1919 by peace of Versailles 382 sq. mi. of Rhenish Prussia (.42) including
     Morensht, Malmédy and Eupen were ceded to Belgium, and 783 sq. mi. of Saar valley
     to France, subject to plebiscit in 1934. Alsace (.44) and Lorraine (.49) taken from
     France in 1871 were restored. See 944.35
   .5
     Note By peace of Versailles in 1919 part of Schleswig-Holstein (.51) was restored to
     Denmark
   .6
     Note A note on the assignment of former Austrian territory, as provided for by the peace
     of Versailles, was included in ed. 10, but omitted from ed. 11 because of changes made by
     the treaty of St Germain and resulting uncertainty as to boundaries, but according to
     Statesman's yearbook for 1923, Tyrol (.64) is retained by Austria, Carniola (.67) and
     Istria (.68) were ceded to Italy, and Dalmatia (.69) to Yugoslavia
CORRECTIONS AND ADITIONS IN ED. 10

943.7 Czechoslovakia
   .71 Bohemia .72 Moravia .73 Silesia .74 Galicia .75 Bukowina

.8 Poland Including history before the division
   Extinct as state from 3d partition in 1795 til 1919, when its sovereignty was restored by
   the peace of Versailles. See also 943.11-.14, 943.73-.75 and 947.4-.5

.9 Hungary, etc.
   By the peace of Versailles 1919 the union of Transylvania (.92) with Rumania in 1918
   was confirmed; Fiume (.94) was made independent, subject to plebiscit in 4 years;
   Slavonia (.93) Croatia (.94) Bosnia (.95) and Herzegovina (.96) were recognized as
   part of Jugoslavia (949.7)

944.3 Champagne Ile de France Lorraine
   .38 Lorraine (Alsace-Lorraine): .381 Meuse .382 Meurthe et
   Moselle .383 Alsace (But use .38 for Alsace and Lorraine together)

See also 943.44-.45 .39 Vosges

947.08 Nicholas 2 1894-1917
   Revolution 1917

949.7 Jugoslavia: Serbia, Montenegro Bulgaria

.8 Rumania: Wallachia, Moldavia, Dobruja
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accident compensation 331.25
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World war 1914–19 940.3
Y M C A Great war 1914–19 940.4773
YWCA *" " 940.4774*

religion 267.5
Edition 11: tables

Corrections, additions and notes, in numeric order of tables

See on p. 2, note for corresponding list for edition 10

021.201  Note  Chanje 024.64 to 024.674
022.916  Note  "  651 to 651.236
         .99  Note  "  651 to 651.465
025.6  Note  See 024 for rules for readers

060 General learned societies
    Note  Subdivided by using for 3d figure: 1 American; 2 English; 3 German; 4 French; 5 Italian; 6 Spanish; 7 Slavic; 8 Other; e.g. Académie des sciences morales et politiques, 064

069 Museums
    The following is an outline of a tentative scheme for museum administration prepared by a committee of the American association of museums, and filling 13 pages of ed. 11 of the Decimal Classification

    .1  Founding  Educational activity  Cooperation
    .2  Bldings
    .3  Equipment  Furnishings  Supplies
    .4  Collecting  Preparing  Repairing
    .5  Collections  Exhibits
    .6  Administration
    .7  Publications  Publishing

090  Note  Ad See also 010 for bibliography and bibliofily; 655 for printing and publishing

215  Note  Antagonism or reconciliation between science and Bible religion. Pro and con arguments by scientists. Bridgewater treatises. For creation see 213

323.1  Note  For immigrant nationalities

325.4-.9  Note  Both immigration and colonization divided like 940-990, by country of settlement; e.g. 325.73 Foreign population of United States; Americanization. See note to 325.2 for a given nationality

333  Note  Conservation of natural resources

339  Note  Conservation; restrictions on use or waste of materials, including general works covering natural resources

352.008 Forms of administration
    Commission, manajer, etc.

362.6  Aged  Infirm  Bereft
370.9402  Chanjed from .9405 of ed. 9
386  Note  Stajes (norse or motor)
387  River, lake, ocean and air transport

394.4  Note  Coronations, durbars, etc.
         .5  Processions  Pageants
         .6  Fairs  Kermess
398.2  Note  Legends of Arthur, Charlemagne, Roland, Faust, Reynard the fox, etc. But poems, dramas, etc. based on these legends clas in literature
CORRECTIONS AND ADITIONS IN ED. II

449 Provençal Catalan
459 Wallachian Rumanian

521.12 Omit relative to the sun
523.51 Chanje Aerolites to Meteorites
526

Note 520.6 misprint for 526.9

539.7 Radioactivity
See also 541.38 Radiochemistry; 546.432 Radium

540.1 Early theories

541.38

Note Ad See also 539.7 Radioactivity; 546.432 Radium

544.2 Omit 2d note

544.3 Blowpiping
For other relations see Relativ index

546.432

Note See also 539.7 Radioactivity; 541.38 Radiochemistry

547.29 Chanje position of note printed under this number so as to precede a brace covering 547.3-9
(as for 430-439)

552.8 Misprinted 553.8

611.01882

Note ch to Nissi's chromophilic bodies (omitting remainder of note)

.669

Note in comparison with human organs

.693 Misprinted .263

613.87

Note See also Social ethics, 177; Late hours, 613.79

.88

Note See also Fasting, famin, starvation, 613.24

614.55

Note Hookworm

.8

Note Safety appliances

625.14

Note Including general works covering also

629.1 Automotive industries
Air, land, water, treated together; for water craft alone see 623.8

.2

Number at end of note should be 684

631.6

Note Agricultural engineering

.8421 cyanid misprint for cyanamid

636.9 guinea pigs, elefants, etc.

648.7 Pests: traps, poisons, insectifuges (In some copies of ed. 10 the .7 has dropt out)

650 Communication Business

651 Offisi economy

Tentaive skeme, covering 6 pages. Main divisions or:

.1 Offisi bildings and rooms

.2 Equipment

.3 Organization

.4 Administration

.5 Records Files and filing

.6 Special material

.7 Correspondence, reports etc.
CORRECTIONS AND ADDITIONS IN ED. II

654

Note Business aspects. For engineering see 621.38; for codes see 652

655.25 Typesetting: composition, proofreading, distribution

-32

Note Cutting stock

-35

Stamps, stamping etc.

For stencils see 652

-36

Omit addressing

See also 654.3 Printing telegraphs; 651.265 Hand numbering machines; 652 Typewriters, addressing machines

695

Note 721.4 misprint for 721.5

797

Note Rowing, yachting, baseball, football, cricket, polo. Matches, races

See also 371.74 and 371.75

798 Horsemanship Motoring Racing

813.43 Howells, William Dean 1837–1920

814.41 Burroughs, John 1837–1921

851.83 Gnoli, Domenico 1838–

853.83 Capuana, Luigi 1839–1917

854.84 Villari, Pasquale 1827–1917

909.8 1800–

.81 1800–99

.82 1900–99

913.3 Antiquities of ancient countries

Subdivided like 930, e.g. 913.32 Egyptian antiquities. Antiquities of countries having both ancient and modern history numbers should be clast in 913.3 unless dealing mainly with antiquities later than the fall of Rome, 476 A.D.

913.4–.9 Antiquities of modern countries

Subdivided like 940–999, e.g. 913.42 English antiquities. See also note under 913.3

920

Note Ad at end of next to last note, after 'goes with botanic books'. This plan may be carried out more specifically where .9 has been used for the history of a subject, by adding for biography the figure 2, making the life of a botanist 580.92.

943.6

See note under this number, in list of corrections in ed. 10

944.08

Note, at end: Poincaré 1913–20; Great war 1914–19 Deschanel 1920 Millerand 1920–

945.08

Note Transfer to this number from .09 the note Victor Emmanuel 2, Cavour, Garibaldi

945.09

Note Victor Emmanuel 2 –1878; Humbert 1878–1900; Victor Emmanuel 3 1900–

949.7

Note In addition to Serbia and Montenegro, Jugoslavia (Kingdom of the Serbs, Croats and Slovenes, establisht in 1918) includes Dalmatia (943.69), Slavonia (943.93), Croatia (943.94), Bosnia (943.95), Herzogovina (943.96) and Slovenia

.8

Note Includes also Bessarabia (947.7) added in Mar. 1918, Bukowina (943.75) Nov 1918, and Transylvania (943.92) Dec. 1918

960 Africa

Tentative expansion covering 15 pages. Outline is as follows:

961 North Africa

.1 Tunis

.2 Tripoli Libia Italiana

.3 Fezzan

.4 Cyrenaica or Barka Bengazi

.9 Libyan desert
Note Business aspects. For engineering see 621.38; for codes see 652

Typesetting: composition, proofreading, distribution

Note Cutting stock

Stamps, stamping etc.

For stencils see 652

Omit addressing

See also 654.3 Printing telegraphs; 651.265 Hand numbering machines; 652 Typewriters, addressing machines

Note 721.4 misprint for 721.5

Note Rowing, yachting, baseball, football, cricket, polo. Matches, races

See also 371-74 and 371-75

Horsemanship Motoring Racing

Howells, William Dean 1837-1920
Burroughs, John 1837-1921
 Gnoli, Domenico 1838-
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1800-

1800-99

1900-99

Antiquities of ancient countries

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Africa Tentative expansion covering 15 pages. Outline is as follows:

North Africa

Tunis

Tripoli Libia Italiana

Fezzan

Cyrenaica or Barka Bengazi

Libyan desert
CORRECTIONS AND ADITIONS IN ED. II

962 Egypt

.1 Lower Egypt Masr-el-Bahri Delta
.2 Middle Egypt el-Wustani Vostani
.3 Upper Egypt es-Said
.4 Anglo-Egyptian Sudan
.41 Nubia Northern provinces
.5 Dongola
.6 Central provinces
.7 West provinces
.8 Kordofan Nuba mts
.9 East and south provinces

963 Abyssinia Ethiopia

.5 Eritrea

964 Morocco French protectorate

.1 Spanish Morocco The Rif
.2 Fez and the northwest coast
.3 Central region
.4 Southeast region
.5 Morocco and southwest coast Marakesh
.6 Rio de Oro Adrar Ifni (Spanish)
.7 Canary islands (Spanish)

965 Algeria (French)

.1 Oran
.3 Alger
.5 Constantine
.7 Southern Algeria

966 North Central Africa European West Africa

.1 French West Africa Sahara
.2 Sudan (French) Upper Senegal-Niger
.3 Senegambia Senegal (French)
.4 Sierra Leone, colony and protectorate (British)
.5 Upper Guinea
.6 Liberia Grain Coast
.68 Ivory Coast (French)
.7 Gold Coast Colony (British)
.74 Ashanti
.8 Dahomey (French)
.81 Togoland
.9 Nigeria (British)

967 South Central Africa

.1 Lower Guinea Cameroon
.2 French Equatorial Africa French Kongo Loango
.3 Angola Portuguese West Africa
.4 Interior Ubangi-Shari Chad
.5 Belgian Kongo Free State Kongo basin
.6 British East Africa Kenya colony and protectorate
.7 Somaliland
.8 Zanzibar Tanganyika territory
.9 Mozambique Portuguese East Africa
968 South Africa
.1 Bechuanaland protectorate
.2 Transvaal
.3 Zululand Swaziland Amatonga
.4 Natal
.5 Orange Free State
.6 Basutoland Kaffraria
.7 Cape of Good Hope
.8 South-west Africa protectorate
.9 Rhodesia Nyasaland protectorate

969 Madagascar and islands of South Indian Ocean
.1 Madagascar (French)

973-11

Note see .12 to .14 below

.58 Note Florida admitted, 27th state 3 Mar. 1845 See 975.9

.744-.749J-L Note When there are more than 9 regiments in any of these groups 0 must be prefixed to the number for the 1st by, e.g. J09, 9th regiment of infantry; otherwise the 9th regiment of infantry, J9, would be shelved after the 89th, J89

.81 Note Fenian invasion of Canada 31 May-2 June 1866 See also 971.048

.85 Note Born 18 Mar. 1837

.86 Dale 1839 misprint for 1893

.896 Notes See note under 973.36
For patriotic societies commemorating the war with Spain see 369.181-183

.899 Note See note under 973.39

.913 Woodrow Wilson 4 Mar. 1913-4 Mar. 1921
The great war, begun with Austria’s declaration of war against Serbia, 28 July 1914, was formally entered by the United States with a declaration of war against Germany, 6 Apr. 1917; armistice signed by the Germans 11 Nov. 1918; treaty of Versailles signed by treaty plenipotentiaries of Germany and the Allied Powers, 28 June 1919; treaties with Germany, Austria and Hungary ratified by United States senate 18 Oct. 1921

.914 Warren Gamaliel Harding 4 Mar. 1921-
Born 2 Nov. 1865

974-8 Note In territory claimed in 17th century by Sweden and then called New Sweden or New Swedeland

979.436 Misprinted .426
979.5 Omit Pacific States

.8 Note Capital Juneau
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(5)
EXPLANATION

The field of knowledge is divided into nine main classes and these are numbered by the digits, 1 to 9. Cyclopedia, periodicals, etc., so general in character as to belong to no one of these classes are marked nought, and form a tenth class. Each class is similarly separated into 9 divisions, general works belonging to no division having nought in place of the division number. Divisions are similarly divided into 9 sections and the process is repeated as often as necessary. Thus 512 means Class 5 (Natural Science), Division 1 (Mathematics), Section 2 (Algebra), and every Algebra is numbered 512.

The books on the shelves and the cards in the subject catalog are arranged in simple numerical order, all class numbers being decimals. Since each subject has a definite number, it follows that all books on any subject must stand together. These tables show the order in which subjects follow one another. Thus 512 Algebra precedes 513 Geometry and follows 511 Arithmetic.

Summaries. The first summary shows the ten Classes into which all topics are divided. The second summary shows the nine Divisions of each of the ten classes, and is useful as a bird’s-eye view of the whole scheme on a single page. Then follow ten pages, one for each class, showing the nine Sections into which each of the nine divisions of each class are divided. These pages are to be used for a synoptic view on a single page of the scope of each class.

Sub-sections. Following these three summaries is the complete classification, which repeats, in proper order, all the classes, divisions, and sections with all the sub-sections given under each section. Synonymous terms, examples, brief notes, dates, and various catch-words are often added to the simple heads for the convenience of the user, who thus gets a fuller and clearer idea of the field which each number covers. Therefore all references to numbers should be looked up in the full tables of sub-sections; never in the Summaries, which are really only a table of contents of the Complete Tables.

Index. After the tables is an index, in which all the heads of the tables are arranged in one simple alphabet, with the class number of each referring to its exact place in the preceding tables. This index includes also, as far as they have been found, all the synonyms or alternative names for the heads, and many other entries that seemed likely to help a reader find readily the subject sought. Though the user knows just where to turn to his subject in the tables, by first consulting the index he may be sent to other allied subjects, where he will find valuable matter which he would otherwise overlook.

Full explanations. Detailed illustrations and rules for the many applications of this system and full explanations of its mnemonic and other important features will be found in the introduction.
INTRODUCTION

[The simplified spellings used are strongly recommended for general adoption by both the American and English Philological Associations, including nearly all prominent scholars in English now living.]

Origin and growth.—The plan of the following Classification and Index was developpt early in 1873. It was the result of several months' study of library economy as found in some hundreds of books and pamphlets, and in over 50 personal visits to libraries. In this study the author became convinced that the usefulness of these libraries might be greatly increasct without added expenditure. Only a fraction of the good possible could be gotten from a library without catalogs, indexes, and aids, to tell librarians and readers what the collection contained on any given subject; yet, by the methods then used, this could be done satisfactorilcty only at a cost so great as to be prohibitivc to all but a few wealthy libraries. With rare exceptions, libraries were growing rapidly. Catalogs, made at great cost, became antiquated soon after being finisht. The methods used involvcd frequent remarking and re-arrangement of the books and remaking of catalogs and indexes, as the only escape from a confusion that seriously crippled usefulness. In this repetition of work experience and skill of previous librarians were largely lost. The great need was a system which should enable each librarian to stand on the shoulders of his predecessors, and fully utilize their labors; which should make the work done to-day permanent, instead of something to be superseded within a few years, and therefore not worth doing in the best way; which should supply the best appliances, instead of leaving the young librarian not only to learn how to work, but to make all his own tools.

Seventeen years' practical use of the system here explainct proves that it will accomplish this result; for with its aid catalogs, shelf lists, indexes, and references, essential to this increasct usefulness, can be made faster and cheaper than by any method not having its essential features, and, when done, are better and vastly more permanent.

Practical utility and economy are the keynotes of the entire system, and no theoretical refinement has been allowcd to modify the scheme, if it would detract from its usefulness or add to its cost.

It was chiefly necessary to find a method that would index books and pamphlets on the shelves, the cards of a catalog, clippings and notes of scrap-books and index rerums, references to all these items, and indeed any literary material in any form, as readily as an ordinary index guides.
to the proper page of a bound book. This difficult problem has been solvd by using no reference marks except the simplest symbols known to the human mind—the Arabic numerals—and by aiding their simplicity with many practical mnemonic devices.

The system has been found on trial equally valuable for cataloging and indexing, and for numbering and arranging books and pamflets on the shelves. For notes on other uses, see p. 37.

When the first edition was published in 1876, 12 pages of tables containing the thousand sections were criticised as being altogether too elaborate for use even in a large library. As fast, however, as the Relativ Index with its remarkable powers became known, users askt for further subdivisions, and both tables and Index have steadily grown since it has been found so easy to gain the admitted great advantages of close classification, and yet avoid the old difficulties by means of the Relativ Index.

**Extent of use.**—The register of libraries which have actually adopted the system, though growing rapidly, is known to be very incomplete. Names are often added of libraries which have used the system for five or 10 years without our learning the fact. A careful registry is kept of the buyer of each classification printed, but we make no assumption that a library has adopted the system because it has ordered a copy of the book.

We print below a brief table showing the growth of the four editions. The nearest estimate possible gives from 200–300 libraries, besides a large number of private book owners and literary workers having the system in daily use.

<table>
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<td>12</td>
<td>12</td>
<td>18</td>
<td>42</td>
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</tr>
<tr>
<td>2</td>
<td>1885</td>
<td>66</td>
<td>162</td>
<td>86</td>
<td>314</td>
<td>500</td>
</tr>
<tr>
<td>3</td>
<td>1888</td>
<td>4</td>
<td>227</td>
<td>185</td>
<td>416</td>
<td>500</td>
</tr>
<tr>
<td>4</td>
<td>1891</td>
<td>41</td>
<td>234</td>
<td>191</td>
<td>466</td>
<td>1,000</td>
</tr>
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</table>

**What is the system?**—A Relativ Index with a subject classification, so numbered or lettered that reference is compact, accurate, and quickly made, is the essential feature, and anything beyond this is merely the application of this plan with various helps and accessories.

1Tho the author is interested only in the usefulness of the system, not in questions of priority of its invention, extended investigation by others fails to show that this most important feature of the system—the relativ index, on which all else hinges—had ever before been used as here to index by a single reference the most diverse material. The relativ location had been used, but not in the present combination with the subject index, which gives it most of its value. The tables of classification, while adopting suggestions from many sources, are original in their system of arrangement and notation, and in many minor features. The decimal form and many mnemonic features of the system have not been found in earlier use, tho since their invention in 1873, this as well as the subject index and other features have been very frequently copied, often with, but oftener without, acknowledgment of their source. But the author is glad to find this system, which has cost him so much labor, doing good service even for those who neglect to mention where they found so valuable a labor-saving literary tool.
Any subject classification with a relativ index in which the one entry indexes a book in the ordinary way, and at the same time indexes shelves, cards, clippings, or any other literary material, is a form of this system.

Decimal form of the system.—The author has devised and experimented with several different plans of classification and notation by means of numbers, letters, and combined numbers and letters, with bases of 26, 35, (the latter accepted by Mr. Cutter and now most admirably workt out in his Boston Athenæum classification), 50, 100, and 150, yet none have seemed good enough to warrant fully working out and publishing details, except that here printed, based on Arabic numerals used decimally. The wide adoption of this system is largely due to the fact that no one ever complains that a classification is too simple, while there is great danger of the complaint of complexity. The simplicity of the decimal form has so commended itself that many think of it as the only form, tho obviously it would be just as much the "relativ index system" if the classification were wholly markt by letters.

The Subject Index is the simplest application of the symbols next in simplicity to 1, 2, 3; viz. a, b, c. This use of the simplest two sets of symbols known, with their common meanings, has given the system its reputation as the simplest yet proposed.

Best known decimal form.—The decimal form means simply that the heads are grouped and numbered with the common arithmetical figures used decimally. As the system here printed is the only decimal form that has thus far been carefully elaborated and publisht, it is commonly thought and spoken of as if it alone were the only possible form of the author's original plan; tho obviously an infinite variety of "relativ index systems" in decimal form could be made by filling the outline with different heads, or with the same heads in different order.

To make out a new set of heads would involve labor and cost vastly beyond the dreams of any person who has not tried exactly this work. The time actually spent on the tables as here printed, by various competent workers, would aggregate several years and cost thousands of dollars. The uniform and urgent advice of the experienced is to adopt a poorer scheme already made rather than undertake so herculean a labor. When done, the maker may possibly be better suited with it, but it is doubtful if many others will be. It is vastly wiser for any man whose time is of value, to use it in something more practically useful to himself and his library than in trying to construct a "satisfactory" scheme of classification. No one yet ever wholly suited himself or any one else, and probably no one ever will. By adopting this scheme already workt out he saves much time and money, gains the immense advantage of using a system in common with hundreds of
others, so that he may utilize their labors and investigations and share with them the economies of cooperation.

Relativ Subject Index.—The alfabetical Index, the most important feature of the system, is as complete as could be made by combining the headings of leading catalogs and bibliographies, and adding such as users of the system have found desirable in 17 years' experience. After all these efforts, new headings will still be needed, and will be added in each new edition.

The Index is design'd to guide both in numbering and in finding books. In assigning numbers, the most specific head that will contain the book having been determined, reference to that head in the Index gives the class number which should be assign'd. Conversely, in finding books on any given subject, reference to the Index gives the number under which they are to be sought on the shelves, in the shelf list, or in the subject catalog. Whenever a new subject comes up, it and its synonyms, with the class-number decided on, should be interlined in the Index, so that the classifier may be uniform with himself in future work.

The Index aims to give similar or synonymous words, and the same words in different connections, so that any person of intelligence will hardly fail to get the right number. A reader wishing to know something of the tariff looks under T, and, at a glance, finds 337 as its class-number. This guides him to the shelves, to all the books and pamphlets, to the shelf catalog, to the subject catalog on cards, to the index of books charged at the loan desk, and, in short, in simple numerical order, throughout the whole library to anything bearing on his subject. If he turns to the tables, he will see that it means class 3, Sociology; division 3, Political economy; section 7, Protection and free trade; but the number alone is enough to classify the book or to find it, for either cataloger or reader. If he had looked under P for protection, or F for free trade, or D for duties, or C for customs, or under any other leading word relating to his subject, he would have been refer'd to 337, or some one of its sub-divisions.

Had he looked for "railroad" he would have found after it 16 separate entries, each preceded by a catchword indicating the phase of the subject in the scheme. A book on railroads may be a treatise on the desirability of government ownership, control, etc., and then is clearly a question of social science; or it may be a practical hand-book for an employe, explaining business methods of railroading, running trains, handling freight, etc., when it is as clearly one of the useful arts. The cataloger knows to which of these heads his book belongs, and the reader knows in which of its phases he wishes to examine the subject. Moreover, the 3 and 6 beginning the numbers indicate clearly the character of each class. But even if the significance of these figures were entirely disregarded, no confusion would result, for, on consulting either of the numbers in the catalog, in the scheme, or on the shelves the difference would be clearly seen.
RELATIV SUBJECT INDEX

In other cases, it is more useful to keep the books on the same sub-
ject together, tho treated from different standpoints. A glance at the
Index tells either reader or classifier which plan has been adopted for
each case.

All topics printed in black-face type in the Index are further divided
in the tables, where one may see the subheads. This saves reprinting
all these subdivisions which would increase the bulk of the Index
many-fold; e. g. if one having a book on "prison labor" looks in the
Index for "Convict labor" or "Prison contracts," he finds at once its
special number 331.5; but if, on the other hand, he thinks to look
only for the general subject "Labor," he finds in black-face type the
entry "Labor, political economy, 331," and turning to the tables he
finds under 331 the subdivision "331.5, Convict labor," the exact topic
in hand.

The greatest objection to a clast catalog has always been the
impossibility of knowing just where to put a book in cataloging, and
just where to look for it when it is again wanted. Different librarians,
or the same librarian at different times, clast the same or similar books
in widely different places. Where one man did all the work, and held
his place for a long series of years, there was a certain degree of
uniformity; but even then there was danger of looking at the same
book from different standpoints, thus causing confusion. When the
daily press is full of one phase of a subject, the tendency is strong to
class all books on this particular subject from the current point of
view; and next year, if a different side of this same subject is again
before the public, there is the same tendency to class books from
the new point of view, in this way separating books on the same and
putting together books on different phases. But, fortunately, practical
usefulness does not require that the ideas of this one or that one be
followd, but only that books of the same character be always put in
the same place, and that there be some means of knowing readily
where that place is. The Relativ Index, with its catchwords, was
designd and is found in use to meet both these requirements, for it
insures that books on the same phase of any subject coming before
the classifiers shall be assignd to the same place, and that any reader
seeking these books shall be referd to that place. If this is done, all
requirements of a good classification are fild. If it is not done, the
system is a failure; for the only real test of any scheme is its helpful-
ness to workers in the library.

Some prominent opponents of clast catalogs admit that the Relativ
Subject Index, in deciding where to class a book at first, and where to
look for it ever afterwards, has removed their strongest objections.
Certainly it would be impossible to make an Index more compact or
more easy of reference.

This Index allows a great portion of the work of classification to be
done in advance by experts, thus securing, at the merest fraction of the usual cost, better and more uniform results than would be possible to the ordinary cataloger, and reducing the labor of classing a library to much narrower limits than ever before.

Each of these thousands of subjects has been carefully assignd its number, many of them after long consideration and consultation with specialists. No individual is sufficiently learned to class wisely books on all subjects and sciences; but botanists can assign all botanical subjects to the right number, mathematicians all mathematical topics, and thus the Index will in time become as accurate as the best scholarship of the day can make it. Even if the decision reacht were not the wisest possible, all practical purposes are servd, because, as each cataloger copies the number from the same index, all books on that subject will be placed together; and, as each reader gets his number from this same Index, he will go directly to the books he seeks.

What the Relativ Index includes.—Most names of countries, towns, animals, plants, etc. have been omitted, the Index containing only those which are in the tables; e. g. it cannot enumerate all the species of trilobites, but when the classifier has found from the proper reference books that Remopleurides is a trilobite, the index will send him to 565.39, and he can classify his monograf on that subject.

Tables.—The essential complement of the Subject Index is the tables of classification, so mapt out as to show in four ways — viz., by size of type, face of type, indention, and number of figures prefixt — the rank of each subject in the classification.

The field of knowledge is divided into nine main classes, numberd by the digits 1 to 9. Cyclopedias, periodicals, etc., so general in character as to belong to none of these classes, are markt nought, and form a tenth class; e. g. class 1 is the library of Science; class 9, of History, etc. These special classes or libraries are then considred independently, and each one is separated again into nine special divisions of the main subject, numberd from 1 to 9, as were the classes, general works belonging to no division having nought in place of the division number. Thus 59 is the ninth division (Zoölogy) of the fifth class (Science). A third division is then made by separating each of these divisions into 10 sections, numberd in the same way with 0 and the nine digits; and this decimal subdivision is repeated, till it secures as many subsections as may be needed in any topic. Thus 513 is the third section (Geometry) of the first division (Mathematics) of the fifth class (Natural science). This number, giving class, division, section and sub-section, if any, is calld the classification or the class number, and is applied to every book and pamflet belonging to the library. All geometries are thus numberd 513, all mineralogies 549, and so thruout the library all books on any given subject bear the number of that subject in the scheme.
Where 0 occurs in a class number, it has its normal zero value. Thus a book numbered 510 is class 5, division 1, but no section; i.e. the book treats of division 51 (Mathematics) in general, and is limited to no one section, as is geometry, markt 513; 500 indicates a treatise on science in general, limited to no division. A naught occurring in the first place would in the same way show that the book is limited to no class; e.g. a general cyclopedia which treats of all nine classes.

Choice and arrangement of heads.—The selection and arrangement of the many thousand heads of the classification cannot be explained in detail for want of space. In all the work, philosophical theory and accuracy have been made to yield to practical usefulness. The impossibility of making a satisfactory classification of all knowledge as preserved in books, has been appreciated from the first, and theoretical harmony and exactness have been repeatedly sacrificed to practical requirements.

Sequence of allied subjects.—Wherever practicable, heads have been so arranged that each subject is preceded and followed by the most nearly allied subjects, and thus added convenience is secured both in catalogs and on shelves; e.g. Building (690) follows Mechanic trades (680) at the end of Useful arts, and Architecture follows at the beginning of Fine arts.

The student of Biology (570) finds fossil life or Paleontology (560) before, and vegetable life or Botany (580) after, this followed in turn by animal life or Zoology (590), ending with Mammals (599); while Useful arts (600) begin with human Anatomy (611) under Medicine, thus giving a regular growth from the fossil plant thru the vegetable and animal kingdoms to the living man.

Co-ordination.—Theoretically, the division of every subject into just io heads is absurd. Practically, it is desirable that classification be as minute as possible, without use of added figures; and the decimal principle, on which our scheme hinges, allows io divisions as readily as a less number.

This principle has proved wholly satisfactory in practice, tho apparently destroying proper co-ordination in some places. The difficulty in such cases is entirely obviated by the use of another figure, giving nine sub-sections to any subject of sufficient importance to warrant closer classification. In history, where classification is made chiefly by countries, a single figure is added, as in the other classes, to give a tenfold geographical division, and a zero followed by another figure is added to give a division into periods.

As all history is by countries, and as minute geographical subdivisions are needed for travels, guide books, and various other uses, the rule is adopted always to use o before the time or period figure. The 0 shows that there is no farther geographic division in that number, and that a period division is there introduced. This allows the use of
the same period division in various places, e. g. 942.05 England in time of the Tudors; 942.905 Wales under the Tudors; 942.7405 Yorkshire under the Tudors. As each figure added gives a tenfold division, any desired degree of minuteness may be secured in classing special subjects.

As in every scheme, many minor subjects are under general heads to which they do not strictly belong. In some cases, these heads are printed in a distinctiv type; e. g. 429 Anglo-Saxon, under English philology. The rule has been to assign these subjects to the most nearly allied heads, or where it was thought they would be most useful. The only alternativ was to omit them altogether. If any such omission occurs, it will be supplied as soon as discoverd, the intention being to provide a place in the tables for every known topic.

New subjects.—When any new topic arises, it is always closely related to some existing heads. If there be no blank space left for it, it is combined with the head nearest allied, and, if desired, by adding a decimal place abundant room is made for the new comer. The system is thus capable of unlimited expansion, and can never break down for lack of room for growth.

Catch-titles.—In naming headings, strict accuracy has often been sacrificed to brevity, for short familiar titles seemd more important than that the names given should express with fulness and exactness the character of all books catalogd under them. Many subjects, apparently omitted, will be found in the Index, assignd, with allied subjects, to a head which bears the name of the most important only. Reference to this Subject-Index will decide at once many doubtful points.

Form distinctions.—The classification is mainly by subject or content regardless of form; but an additional form distinction for general treatises is found practically useful.

Thus, in Science there are many compends, dictionaries, essays, periodicals, and societies, treating of Science in general, and so having 0 for the division figure, but treating it under different forms, and, therefore, divided into sections according to this form: 501 for philosophy or theories of Science, 502 for compends, 503 for dictionaries. This treatment is as nearly as practicable uniform in all classes. Creasy's "Fifteen decisive battles" is 904, the first figure being 9, because the book is clearly history; the second figure 0, because limited to no division of class 9; and the third figure 4, because the book is a collection of essays.

These form distinctions are introduced at the beginning of the class because the number of general works is large, and these first numerals would otherwise be unused. They apply only to general treatises, which, without them, would have a class number ending in two naughts.

This form distinction is often used to subdivide general works on
divisions or even sections; e. g. under 510, works on mathematics in general are divided by form into 510.3, dictionaries of mathematics; 510.4, essays; 510.5, periodicals, etc., just as works on Science in general were divided. A dictionary of mathematics is 510.3, not 503, because every book belongs to the most specific head that will contain it; so 503 is limited to dictionaries or cyclopedias of science in general. Books treating of many subjects, such as general cyclopedias or periodicals, go in class 0, and are then divided by form into cyclopedias, periodicals, or societies.

Form divisions always have the same set of numbers, preceded by 0, viz.: 1, philosophy, theories, etc.; 2, compends, outlines; 3, dictionaries, cyclopedias; 4, essays, lectures, letters, etc.; 5, periodicals, magazines, etc.; 6, societies, associations, transactions, reports, etc.; 7, education, study, teaching, training, etc.; 8, polygraphy, collections, etc.; 9, history. Thus a periodical on any subject has the subject number followd by 05; e. g. a periodical on public health, 614.05.

But if the number already ends in 0, 0 is not repeated before form-division figures; e. g. a zoological magazine is 590.5, not 590.05.

Minute classification.—On first publication in 1876, a common criticism was that 1,000 heads could never be successfully used, however desirable so close classification might be. As soon, however, as actual experience proved it as easy to use 1,000 heads in the new system as 100 in the old, the obviously great practical value of close classification led one user after another strongly to urge the publication of subdivisions. This is now done in such a way that one may use the whole or any part of the sub-sections and ignore the rest without difficulty or confusion, thus allowing each to use minute sub-divisions where he wishes or needs them, without being forced into refinements in subjects where he has few books or little interest. The first three figures only may be used as before, and the rest show the scope of the subject. On many topics minute sub-sections are printed simply for this purpose, and for use in indexing periodicals, transactions of societies, and in keeping notes.

The advantage of close classification is unquestioned, if the user knows just what it is. With this plan it is not only practicable, but comparatively easy. If there are only 10 books on a given topic, it is useful to have them in groups among themselves, for otherwise they would have only accidental order, which is of service to no one. A reader wishing a specific book should go, not to the shelves, but to the Author-and-title catalog, where he can find its place quickest. If he wishes a specific subject, he is sent instantly to the exact place by the Subject-Index. If he wishes to study the library's resources at the shelves, he will be greatly helped by the most minute classing. A teacher showing his pupil the material on any subject, if there are only 20 books, would surely put together those covering the same points, if
there are even two. Much more should librarians group closely their greater collections, that readers may gain something of the advantages of an experienced guide.

Thus every specialist has his own special library. If a student of science in general, he is sent to class 5; if his department be zoology, his library is 59; if his specialty is shells, he finds all works and references on that subject in library 594. Whether a specialist needs it or not, every subject being a library by itself, shows resources and wants as no catalog can show them. A catalog cannot be made to take satisfactorily the place of handling books themselves. This advantage weighs most in a college or society library, where many go to the shelves; but even if librarians only are admitted, close classification is worth its cost in the added power it gives.

Mnemonics.—Arrangement of heads has been sometimes modified to secure mnemonic aid in numbering and finding books without the Index; thus China has always the number 1. In Ancient History, it has the first section, 931; in Modern History, under Asia, it has 951. Similarly the Indian number is 4; Egyptian, 2; English, 2; German, 3; French, 4; Italian, 5; Spanish, 6; European, 4; Asian, 5; African, 6; North American, 7; South American, 8; and so for all divisions by languages or countries. Italian 5, for instance, is in 035, 055, 065, 450, 850, 945, and many others. This mnemonic principle is specially prominent in Philology and Literature, and their divisions, and in form distinctions used in the first nine sections of each class. Philosophy, methods, or theory occurring as a head is always 1; dictionaries and cyclopédias, 3; essays, 4; periodicals, 5; associations, institutions, and societies, 6; education, 7; polygraphy or collections, 8; history, 9. In numerous cases several minor heads are group together as Other, always numbered 9.

While Italian is always 5, 5 is by no means always Italian. Grammar is 5. Periodicals are 5, Asia is 5, Oratory is 5, etc. Even were it possible, to limit 5 to Italian would waste numbering material, and results would not justify cost. The purpose is to give practical aid, not to follow a fanciful theory. A cataloger marking a German grammar, remembers that all Philology begins with 4, and, as German is always 3 and grammar 5, he knows the number must be 435. Italian (5), poetry (1), is as plainly 851 with no danger of being mistaken for "poetry of grammar" or "theory of Asia," because the numbers also have that meaning. This feature is an aid, not the regular method, and in all doubtful cases one refers at once to index or tables. Suggested difficulties are usually creations of ingenious theorists and not an outgrowth of practical experience in using this plan.

Wherever practicable, this mnemonic principle is used in subdividing sections. 558, Geology of South America, is subdivided by adding the sections of 980, History of South America. Geology of Brazil then
must be 558.1: mnemonically, the first 5 is the Science number; second 5, Geology; 8, South America; and 1, Brazil. Any library attendant or regular user of the scheme recognizes at a glance 558.1 as Geology of Brazil. This mnemonic feature occurs in several hundred places in the classification, and is of great practical utility in numbering and finding books without catalog or index, and in determining the character of any book simply from its call number. The extent of its use is shown in the four tables appended to the main Index, giving alphabetical lists of (1) subjects, with class number of each, which may be subdivided geographically; (2) form divisions, with the figures to be added in making such division; (3) languages, with their class numbers, which may be further subdivided philologically by adding the figures given in Index table 4; (4) philological divisions, with the figures to be added in subdividing any language in Index table 3.

As in close subdivision, the wish for mnemonic correspondence has never outweighed any claim of greater usefulness. In many cases choice between numbers was hardly perceptible, e.g.: whether in philology the order should be French, Spanish, Italian, or French, Italian, Spanish. In such cases mnemonic numbers were given preference, and 17 years has proved this wisest. Great gain, beside ease of remembering, results from this uniform use of the same numbers with the same meaning whenever a similar division is made. Wherever a division by languages or countries is made, it follows philology or history numbers, and in the tables, the note “Divided like 900” fully takes the place of reprinting all the history subdivisions. This saving justifies use of these numbers in some cases, even where a somewhat different order might seem more nearly fitted to the special case; e.g. in 342 an order which would put the constitutional history of Canada (342.71) and Australia (342.94) next that of England (342.42) would be better adapted to the special case than the actual order which separates them both from England and each other. Still by following the usual “procrustean” numbers, many topics can be subdivided minutely without further study, by simply applying the History or Language subdivisions. A single illustration of the astonishing power this principle gives will suffice, tho there are thousands that might be given: 016 is “Bibliografia of special subjects, divided like the regular classification,” therefore by aid of the tables under 581, 016.581974742 readily translates itself to users of the system into “Bibliografia of the flora of Albany co., N. Y.” While these 12 figures might never be used, if a specialist wishes minute division, it is ready to his hand, conforms to the Index, and will be clearly understood by any one familiar with the plan. A specialist in such cases would probably adopt a contraction for his long number, and use in full only the minute divisions. See p. 35 for such contractions.

Decimalism.—We have not sacrificed utility in order to force sub-
jects on the decimal procrustean bed. Decimals have been used as servants, not as masters. When subjects have been combined or separated into just 10 heads, it has been from no necessity of the scheme, but because it seemed the most useful way, all things considered. In many cases there were at first only three to seven heads instead of 10; but usually, during three years of testing before first publication, it was found useful to divide some of these heads, and, as it took no added space or labor, there was no objection to it. On the other hand, there were cases where more than 10 heads seemed more natural; and, as any number up to 100 is provided for by adding one decimal place, this was done in most cases. As only 1000 sections were first printed, it was often necessary to put two or more closely allied topics together under the same number, as must still be done whenever a library limits the number of figures used to three; but during the 14 years that the system has been in print, subdivisions have multiplied, till now every important topic has its own special number. The scheme gives us for each topic, as it were, a case of nine pigeon-holes, with a large space at the top; and we use them as every practical business man uses such pigeon-holes about his desk. If, as in 220, there are less than nine main topics, it is often convenient to use the extra spaces for subdivisions. Thus we keep separate, under the Old Testament, the historical, poetical, and profetical books; and under the New Testament, the gospels, epistles, and apocalypse. The spaces are there, and it is convenient to use them,—a reason that experience proves a good answer to the charge of lack of coördination, the indentation and type in the tables make that charge baseless. Then in 280, having more than nine topics,—if we are using only three figures,—we put Congregational in the same space with Presbyterian, and all the little denominations together in the last box, just as the business man puts his papers in his pigeon-holes. If he insisted on having a different case made to order for each use, it would cost over twice as much; he could not group them together or interchange them, and they would not fit the shelves of his office as now.

There has been a perverse misapprehension of this feature, and critics oftenest stumble over "procrustean 10." In fact, this is an element of usefulness. A railroad also has the fault that it is procrustean in its path and in its times. It cannot come to your door nor wait your convenience, as did the stage-coach or carriage; it cannot go to the fields for its loads of produce; it cannot turn out for obstacles; and it is simply because it is procrustean that it can do its work so much better and quicker and cheaper. The parallel could be fairly extended to many other cases, but any thoughtful mind will recognize that the economy and ease of working the Decimal system are dependent on its being procrustean. Without it we should lose the great simplicity of the Relativ Index, many mnemonic correspondences, and the useful
to indicate form and period divisions. Our intersecting lines of space and time in History, etc., of language and form in Literature and Philology, and scores of similar advantages, depend wholly on pro-
crustean 10, or else on some other number equally procrustean, but lacking the advantages of exact correspondence to our arithmetic.

Relativ location.—Economy and simplicity called not only for the Subject Index, but also for some plan of consolidating the two sets of marks heretofore used; the one telling of what subject a book treats, the other where the book was shelved. By relativ location and decimal class numbers we have made our simple Arabic numbers tell of each book and pamflet, both what it is, and where it is.

In arranging books on the shelves, absolute location by shelf and book number is wholly abandond, relativ location by class and book number being one of the most valuable features of the plan. Accompanying the class number is the book number, which prevents confusion of different books on the same subject. In finding books, the printed numbers on the backs are followed, the upper being the class and the lower the book number. The class is found in its numerical order among the classes, just as the shelf is found in the ordinary system. Shelves are not numbered, as increase of different departments, opening of new rooms, and any arrangement of classes to bring books most circulated nearest the delivery desk, will at different times bring different class numbers on any given shelf. New books, as receivd, are numbered and put in place, in the same way that new titles are added to the card catalog.

Thus all the books on any given subject are found standing together, and no additions or changes ever separate them. Not only are all the books on the subject sought together, but the most nearly allied subjects precede and follow, they in turn being preceded and followed by other allied subjects as far as practicable. Readers not having access to the shelves find short titles arranged in the same order in the shelf list, and full titles, imprints, subject and cross references, notes, etc., in the subject catalog.

Parts of sets, and books on the same or allied subjects, are never separated as they are sure to be, sooner or later, in every library arranged on the common plan, unless it be frequently re-arranged and recatalogd. The great expense of this makes it impracticable except for a few wealthy libraries. In this system both class and book numbers remain unchanged thru all changes of shelving, buildings, or arrangement.

Among hundreds of points raised by librarians as to its practical workings and usefulness, the only one in which it was not shown to be equal or superior to the old systems was that in this relativ location a

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1For suggestions regarding forms of book numbers best used with this scheme of classification, see p. 30.
book which this year stands, e. g. at the end of a certain shelf, may not be on that shelf at all another year, because of uneven growth of the parts of the library. This slight objection, however, inheres in any system where books are arranged by subjects, rather than by shelves, windows, doors, and similar non-intellectual distinctions.

Sizes on shelves.—Most libraries have abandoned close distinction of sizes. It is true that this distinction saves a little space, but at far too great a cost; for every distinction of sizes makes a parallel classification. If books are grouped in five sizes, one must look in five places before he can be sure of having seen all the books.

It is better to shelve octavos and all smaller books together in one series, and arrange in parallel libraries only quartos and folios, which are too large to stand on the regular shelves, showing the series in which any oversize book is put by a size letter prefix to the book number; e. g. 749 qA, to show that book A on Artistic furniture is too large for the regular shelves, and so is placed in the q or quarto series. Another way is to use a wood or pasteboard dummy, to show the location of a book not in its regular place. But, however solved, there is no conflict between the size problem and the Decimal Classification.

**CATALOGS**

Any system of catalogs may be used with this scheme. But the two essentials of even the simplest system are the author (or preferably name) catalog and the shelf list. The chief use of the system for catalogs is for the latter and for the class catalog on cards.

**Name catalog.**—In the name catalog on cards, arranged strictly by names of authors and of persons or places written about, the class number holds a subordinate place, yet is constantly useful. If printed, it appears in a single column as in the Relativ Index, and, where there is no subject catalog, one can rapidly pick out the books on any desired topic by glancing down the column for the class number wanted.

**Shelf list.**—In the shelf list the class number is again highly important, as it makes of the list the most useful form of brief subject catalog. Each page gives in columns accession number, author's name, and brief title of every book in the library on the specific subject bearing that class number.

**Subject catalog.**—In the card catalog of subjects the classification is mapped out above the cards by projecting guides, making reference almost instantaneous. Subjects are arranged in the 1, 2, 3 order of their decimal subject numbers exactly as in the classification tables, and the cards of each subject are then further arranged alphabetically by authors.

The printed subject catalog on this plan is also the most compact and satisfactory in use. Under each class number are given the resources of the library on that subject, the heading giving for conven-
ience the name as well as the number of the subject; e. g. "513 Geometry." General notes are printed in finer type under general heads, and an index at the end shows where to open the book to find any topic. As class numbers are put in place of page numbers, this index serves for any catalog, list or library arranged on this plan.

**Dictionary catalog.**—While it is as easy to use the dictionary catalog with this system as with any other, we find the common dictionary catalog inferior to the clast, for nearly all practical purposes. The dictionary plan, if used in a catalog, must give results very unsatisfactory to students, or else very expensive to makers.

The failure of the dictionary catalog to meet the requirements of the scholar has been often pointed out. While it is far the best for an index, there still exists much of the same need of a good clast catalog as at the first. But the difficulties in the way both in making and using such a catalog have heretofore been so great that there has been a conviction among many practical librarians that notwithstanding its great advantages, the idea must be abandoned as impracticable, while other eminent authorities have ably argued that the poorest clast catalog is better than one unclast, and that any use of such a catalog is in itself a lesson in bibliography. Now that the serious difficulties of making a good clast catalog have been so largely removed by the simple numbers and Relativ Index of the decimal plan, the merits of the clast over the more common dictionary system are becoming doubly prominent.

The Subject Index of this system is a skeleton dictionary catalog, covering everything not fully covered by the "name catalog." Instead of giving the book titles under each head, the number refers to all those titles simply and directly. The index may be made on any of the various dictionary plans, with all the advantages it may possess. To us the simplest seemed the best. We give only short headings with a brief indication in doubtful cases of the point of view taken in assigning the class number.

We therefore unite the advantages of the dictionary and clast catalogs, not by mingling them together, and so losing much of the simplicity of one and as much of the excellence of the other, but by really using both, each with its own merits. Only one set of titles is needed, for the class numbers make them available for both catalogs.

**ADVANTAGES**

**Shelves.**—The system on the shelves is the simplest form of relativ location. Many libraries have adopted it for shelf arrangement, where catalogs recently printed, or large investment in another plan, made it too expensive to change anything else. The advantages here have been already mentioned under Relativ location, p. 19.

**Shelf list.**—By simply printing the shelf list at any time, a subject class list of the best kind is made for any topic on which there may be
DECIMAL CLASSIFICATION

present interest; e.g. if a town contemplates a new water supply, interest is greatly stimulated, and everything about water-works is wanted. The librarian has only to open his shelf list to 628.1 and 352.6 and print it. This great advantage is gained with but slight variation from the form found best in its regular use as a shelf list for yearly examination of the shelves to detect losses and misplacements.

Accession book.—From the accession book, tables of the number of books added on each subject are readily made from the shelf mark columns. A glance at it shows the character, by subjects, of the books added during any given period, for, wherever this class number occurs, it tells not only where the book is shelvd but also what it is about.

Pamflets.—These class numbers applied to pamflets have proved specially satisfactory. The number is written on the upper left corner, and the pamflets are shelvd in pamflet cases side by side with books on the same subject, or they may be kept on special shelves divided every 10 cm. by perpendicular partitions. Little expense is incurd, and yet the entire pamflet resources of the library on any subject can be produced almost instantly. The immense advantages of this plan over those in common use, both in economy and usefulness, will be appreciated by every librarian in charge of a pamflet collection. A name or author catalog is made on slips if time allows. The pamflets themselves are the best subject catalog. Uncatalogd pamflets treating of any subject bear the same class number, and are arranged on the shelves in a case immediately before or after the books of each section, or, if prefered, each pamflet may be put in exact place as if bound.

The tendency grows to put all material under its class number on the regular shelves, for the same reasons that have led to giving up division by size of books. One examining a subject likes to see all the resources in one place so far as possible.

Sale duplicates.—The same arrangement is admirable here. They are so constantly changing that a catalog can hardly be afforded, and a subject arrangement on any other plan than this is difficult to maintain. Still, it is very essential that there be some means of knowing what duplicates there are on any given subject. By simply penciling the class number on the books and arranging them numerically, it is possible to give this information more quickly and more satisfactorily than by any other method, and at the same time with less expense.

Charging system.—Here as elsewhere it serves all ordinary purposes, with special advantages of its own. On the library accounts the character of each person's reading is clearly indicated by the numbers charged, and minutest statistics of circulation in any subject are made by simply counting the call slips in the register or check box, and entering the number against each class in the record. The whereabouts of any book wanted, or the amount of use of any subject, is seen at a glance. This decimal check box can be used in any system. Its
ADVANTAGES

peculiar advantage with this classification is that it always exhibits, correct to the hour, a complete table of all books off the shelves in each subject. The slips in box 53 show just how many and what books are out in Physics; the slips under 823 show all the English novels in circulation, and who have them. Such a table of circulation always at hand, and without an item of expense or labor,—for the check box is necessary as a record of loans,—is highly prized by all interested in the character of books read, and at no time has so much wise attention been given to educating the taste of readers in our public libraries as at the present. To convert this table into permanent statistics involves only the trifling labor of recording as often as desired.

Subject references.—In no place are the peculiar advantages felt more than here. Many users of the system are undertaking analyses and cross references to an extent not hitherto thought practicable or hardly possible. These few figures tell as clearly as a long heading exactly what the reference is, while the gain in ease of use is even greater than the time and space saved in recording. The clearness and directness of the method aid wonderfully in this work. References to transactions, or chapters in essays, may be made in the most compact and usable form.

Recataloging.—When Amherst College in 1873 adopted the plan, and began to recatalog its library, it was found entirely practicable to make the change to the new system gradually, as means allowd, without interfering in any appreciable degree with the circulation of the books. The methods employd for thus changing without interrupting use must vary according to the different conditions of each case. The essential feature is some distinction between old and new call-numbers, sufficiently markt to be easily recognized by attendants. Since call-numbers ordinarily consist wholly of figures, the initial letter of the Cutter author-numbers furnishes this requisit. All numbers consisting of figures only are then recognized as belonging to the old, and all numbers containing a letter as belonging to the new system.

Adaptability.—The system is so flexible that it adapts itself to almost any circumstances. It may be used in almost any one of its applications without the others, and with a proportionate result. It may be applied to pamflets alone, bringing order out of chaos, and solving this vexed and vexing problem; or it may be used for the catalogs, leaving the arrangement on the shelves as before; or it may be applied to the shelves, while the catalog is on the dictionary or any other plan, and so on.

Arabic numerals.—Arabic numerals can be written and found quicker, and with less danger of confusion or mistake, than any other symbols. Therefore, Roman numerals, capitals and small letters, and similar symbols usually found in systems of classification, are entirely discarded, and by exclusiv use of Arabic numerals thruout the shelves,
indexes, catalogs, and records, there is secured the greatest accuracy, economy, and convenience. This advantage is specially prominent in comparison with systems where the name of the author or the title must be written, in calling for or charging books and in making references.

Endowment of special departments.—Another great advantage of this plan is its peculiar adaptability to the plan of endowing special departments. One specially interested in any subject can often be induced to endow that subject with a sum, of which the income shall each year buy all the best books that appear on it.

If John Doe is specially interested in the opera, the library says to him: "Give us $1000 as an endowment of 782, and we will call it the Doe Library of Dramatic Music. There will be found every book, pamflet, newspaper clipping, or ms. that the library has or can get on this subject. Gifts from others will be placed in the Doe Library, the donor's name being given on the book-plate, and for generations to come every person interested in the opera will be grateful for your foundation." In this way 782 is assignd to John Doe, and his pride is stimulated in developing it. If another man with larger means and interest will endow the whole subject of music 780, there is no difficulty or impropriety in including 782, the Doe Dramatic Music Library as the second section of 780, the Roe Music Library.

This is one of the most promising fields for development, for almost every library has among its readers some specially interested, who if properly approachd would endow some topic, even if a small one, and this relativ location, with its definit number expressing just the ground covered, may be of great service in working up this plan of special endowments.

Summary.—The claims of the system may be sumd up as follows: Compared with other systems it is less expensiv; more easily understood, rememberd, and used; practical rather than theoretical; brief and familiar in its nomenclature; best for arranging pamflets, sale duplicates, and notes, and for indexing; susceptible of partial and gradual adoption without confusion; more convenient in keeping statistics and checks for books off the shelves; the most satisfactory adaptation of the card catalog principle to the shelves. It requires less space to shelve the books; uses simpler symbols and fewer of them; can be expanded, without limit and without confusion or waste of labor, in both catalogs and on shelves or in catalogs alone; checks more thuroly and conveniently against mistakes; admits more readily numerous cross references; is unchangeable in its call numbers, and so gives them in all places where needed, as given in no other system; in its index affords an answer to the greatest objection to clast catalogs, and is the first satisfactory union of the advantages of the clast and dictionary system.
USE OF TABLES AND INDEX

SUGGESTIONS TO USERS

In referring to tables, hold the book in the right hand and turn with the left, then the class numbers show very plainly on the left margin and reference is greatly expedited. Some prefer to hold the book in the left hand, but in any case the eye should follow the left pages wholly.

PLAN OF BOOK

Tables.—The first page of tables shows the 10 classes into which all topics are divided. The next page, showing the nine divisions of each of the 10 classes, is a bird’s-eye view of the whole scheme on a single page. Then follows a synoptic view of 10 pages, one for each class, showing the nine sections of each division of each class.

Following these synopses is the complete classification, which repeats in proper order classes, divisions, and sections, with all their subsections. For the convenience of the user, who thus gets a fuller and clearer idea of the field which each number covers, synonymous terms, examples, brief notes, dates, and various catch-words are often added to the main heads. Therefore all references to numbers should be looked up in the full tables of subsections, using the summaries when only a synoptic view is wanted.

Index.—Next is an alfabetical index of all the heads, referring by class number to the exact place of each in the preceding tables. This Index includes also, as far as found, all synonyms or alternativ names for heads, and any other entries that seem likely to help a reader find his subject readily. Tho the user knows just where to turn to his subject in the tables, if he consults the Index, he may be sent also to other allied subjects, where he will find valuable matter which he might otherwise overlook.

Numeration.—In thinking or speaking of the class numbers, to avoid confusion always divide at the decimal point, and name it; e. g. read 942.27 “nine forty-two, point twenty-seven,” never “ninety-four two twenty-seven.” If “point” were omitted, the ear might readily interpret 270.2 as 272, while “two seventy, point two” can never be misunderstood.

USE OF TABLES AND INDEX

Familiarity with classification.—Get a general knowledge of the scheme by learning the 10 main classes [you will soon know the 100 divisions also without special study], so that you can tell to what subject a given number belongs from its first figure without referring to the tables. Specific knowledge of minute divisions will come gradually, but rapidly, from use. Using the tables alone, and then always verifying your result by the Index, you will more rapidly acquire knowledge of the classification and facility in its use. To do this, decide first to which of the 10 classes the subject belongs; next, take that class as if
there were no other, and decide to which of its 10 divisions the subject belongs; then, in the same way, select section and subsection, thus running down your topic in its grooves, which become tenfold narrower at each step. As a check against error, use the index freely, even tho familiar with the scheme.

Subject of a book.—To find out the subject of a book consult:—
1. The title, since it is generally chosen to show what the book is about. But as many titles are misleading, never class from title alone but always examin also
2. Table of contents, which is the best guide to the true subject. If there is no table of contents read
3. Headings of chapters, or marginal topics.
4. Preface.—Unless already certain, glance thru this to catch the author’s point of view, and verify impressions gained from title and contents.
5. Reference books.—If preceding means fail, consult reliable bibliografies, clas and annotated catalogs, biografical dictionaries, histories of literature, cyclopedias, reviews, etc., for information about the character of the book.
6. Subject-matter.—If the five shorter methods above fail, examine the subject-matter of the book itself, and if still in doubt, to avoid mistakes, put aside on an "under consideration" shelf till you can examin more thuroly or consult
7. Specialists.—Experts, competent to define their true subject and relation, are usually glad to examin enough to class any new books in their departments. Old ones they know where to put already.

After deciding what the book is about, find this subject in the tables, either thru the Index or by using the tables directly, which for the beginner is a longer process, seldom to be trusted without subsequent reference to the Index; e. g. Pollock’s Land laws might naturally be clas from the tables alone as “333, Land; ownership; rights; rent,” which seems exactly to fit this book. The Index, however, shows two numbers, both referring to land laws, but from different points of view; viz. 347.2, legal, and 333, economic. The object of this book, as seen in the preface, is to give a popular presentation of English statutes pertaining to landholding, not to discuss the history and theory of land laws from the economist’s point of view; and it should be clas "347.2, Realty," which might have been mist but for the Index.

Assigning class numbers.—1. Practical usefulness is the chief thing. Put each book under the subject to the student of which it is most useful, unless local reasons “attract” it to a place still more useful in your library. See p. 279.
2. The content or the real subject of which a book treats, and not the form or the accidental wording of the title, determines its place.

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ASSIGNING CLASS NUMBERS

Following this rule, put a philosophy of art with Art, not with Philosophy; a history of mathematics with Mathematics, not with History; for philosophy or history is simply the form which these books have taken. Their true content or subject is Art or Mathematics, and to the student of these subjects they are most useful.

3. Always remember that the question is not where one would probably look to find a particular book, but under what subject is the book of greatest value; e.g. it is of little consequence whether "one would be apt to look" under 595.1 for Darwin's *Formation of vegetable mould*, but of much consequence that one studying earth-worms should find that book in 595.1 Worms, since it is chiefly valuable as a study of the habits of earth-worms. Any one wanting that special book would look for it in the name catalog under Darwin.

4. Assign every book to the most specific head that will contain it. This will vary in different libraries according to the number of figures used, e.g. the specific head for "compulsory vaccination" is 614.4738; but in a library using only three figures, the most specific number possible is 614, which must take everything on Public health.

A library recently adopted the plan of putting all books of a division together, if they had but few; e.g. all mathematical works were markt 510. It took just as many figures, cost just as much labor in most cases, and, if a man wanted the one calculus in the whole library, he had to search through the 150 volumes in 510, when otherwise he would instantly have found it standing alone as 517. See also "Number of figures in class number," p. 287.

5. The predominant tendency or obvious purpose of a book usually decides its class number at once. Still a book often treats of two or more different subjects. In such cases assign it to the place where it will be most useful, and make references under all subordinate subjects. Give these reference numbers both on book plate and subject card, as well as on reference cards.

It is one of the markt advantages of the plan that these references, notes, etc., may be added from time to time as found convenient. It is necessary at first to find only the predominant tendency of the book in order to classify it. Subject references are added whenever found necessary.

Add these numbers indicating more closely the character of the book as rapidly as possible, and invite all specialists to call the librarian's attention to every desirable subject reference noticed in their reading. These numbers take little room, are easily added, and in most cases are very valuable.

6. If two subjects have distinct page limitations, class under the first, and make analytic reference under the second. But if the second is decidedly more important or much greater in bulk, class under that,
DE CIMAL CLASSIFICATION

with reference under the first. Always put a book under the first subject, unless there is good reason for entering it under another.

7. Consider not only the scope and tendency of each book, but also the nature and specialties of each library.

Any subject of which a library makes a specialty naturally "attracts" allied subjects. This influence is strongest in minute classification. To admit this variation, many subjects in the present scheme have two or more places, according to these different sides; e. g. a book on "school hygiene," which a medical library puts under 613, has also a place in 371.7, where the educational specialist requires it.

8. If a book treats of a majority of the sections of any division, give it the division number, instead of the most important section number with subject references. Unless some one section is so prominently treated as to warrant placing the book in it, class a book on four or more sections under the division number; e. g. class a volume on light, heat, and sound, under the head most fully discust, and refer to it from the others; but if it treats also of mechanics, hydrostatics, and pneumatics, class as 530, or general physics, tho no mention be made of electricity, magnetism, or molecular physics.

9. To secure uniformity, make for future reference full notes of all difficulties and decisions; for it is of more importance to put books on the same subject together than to put them in the absolutely correct place.

These notes should be written either on the broad margins of the classification tables, or on an interleavd copy, or on P slips arranged by class numbers, like the clast catalog.

10. Keep collected works, libraries, etc., together, and assign like individual books to the most specific head that will contain them; or assign to the most prominent of the various subjects on which they treat, with subject references from the others; or separate and class the parts as independent works.

This last practice constantly grows in favor, and many librarians now largely disregard uniform bindings and "series" lettering, and, unless contents of volumes are so connected that they cannot be separated, class each under the most specific head that will contain it.

11. Class translations, reviews, keys, analyses, answers, and other books about specific books with the original book, as being there most useful.

**Number of figures used in class number.**—Decide this according to circumstances in each library. Small libraries often use the minute subsections beyond three figures only in certain divisions like Travel, 913–919 (where a closer geographic division is needed) and where a fourth figure is necessary in 400 and 800 to separate different languages.

In very small collections two figures might do till growth required further division; but it is economy, and saves handling the books a
BUILDING NUMBERS

second time to use at least three figures at first, even in the smallest collection. In larger or rapidly growing libraries all subdivisions may be used for the same reason, tho the number of books may not at the time seem to justify it. Whether there are one or 1,000 books on any topic, they take no more space on the shelves if clast minutely, and the work is done once for all. When large accessions come, even if a century later, this number will not have to be altered. A library having but 20 books on Education might think it unwise to use the full scheme, but the whole 20 would go on a single shelf, and take no more room, and the Index would refer more accurately to what was wanted. The number of books you have on any subject has in this system no special weight. In a relativ location, any number of consecutiv topics without a book waste no space on shelvs or in catalogs. The numbers are merely skipt. This plan not only does no harm, but has the considerable negativ value that looking for the number and finding it blank or skipt, shows that you have nothing on the subject, — a piece of information second in value only to finding something, for one need no longer search.

The practical objection to close classing is that it gives a longer number to charge in a lending library. In a reference library full subsections should be used. Where a short number is imperativ, it is well to give the full class number on another part of the book plate, not to be used in charging, but as a guide to the contents of the book. Thus when the classifier has once examind a book, and found out just what it is about, the record is preservd for the benefit of others.

BUILDING NUMBERS

Geografical divisions.—In dividing by countries according to the note "Divided like 930–99," found so often in the tables, add only the number following initial 9, for this 9 means not locality but simply class 9, History; e. g. 942, history of England, analyzd is 9, history, 42, England (4 Europe, 2 England). If geology of England is wanted, add to 55 (the number for geology) 42 (the number for England), and you have 554.2. History of N. Y. state is 974.7, of which 747 is the locality number, and the number for N. Y. state administration, 353.9747, is built up by adding to 353.9 (the number for State administration) 747 (the number for N. Y. state).

Language and literature.—In 890, where the direction is to "divide like 490," note that 890, Minor literatures, and 490, Minor languages, correspond exactly, so that only the figures following 49 are to be added to 89 to build a minor literature number; e. g. Polish language is 491.85; adding 185 to 89, Minor literatures, gives 891.85 Polish literature. In brief, to form literature from philology numbers substitute 8

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DECIMAL CLASSIFICATION

in place of the first figure 4; e. g. Sanskrit language 491.2, Sanskrit literature 891.2.

If the direction is to "divide like the main classification," as in 016, the number for the required subject is added exactly as it stands in the tables; e. g. bibliografiy of Polish poetry, 016.891851.

Combining numbers in a way not printed in the tables must be done with great care or confusion results. Many users, fascinated with the possibilities of the system, make combinations more ingenious than useful; e. g. "the horse's foot and how to shoe it" was recently markt 636.1682, i. e. the blacksmithing number, 682, being added to the horse number, 636.1, making a very long, useless number. Horse-shoeing is now added to the tables as 682.1. Often it seems well to the classifier to add a figure to show some distinction. It is short and desirable, but later he may find he has shut himself off from using some other division which he would greatly prefer. Every added figure must be clearly written in the tables and index, for no man's memory can be trusted. See 9, p. 28; and Cautions, p. 31.

BOOK NUMBERS

Author numbers.—The invention of translation systems by which a name is represented by its initial with the rest translated into numbers, —e. g. Freeman, F 87,—has led most libraries to arrange books under each class number alphabetically by authors, or in local history by towns, or in bibliografiy by biografes. This keeps all works by the same author together, and in large classes enables one to find any book readily without consulting catalogs. One great advantage is that the same author has the same book number in every subject; i. e. the figures are significant like our class numbers, and translate themselves into the name. Great practical mnemonic convenience results from this peculiar form of book number. By far the most widely used of these translation systems is that of the Boston Athenæum, devised by the librarian, C: A. Cutter, and known as the Cutter numbers.

Time numbers.—A second arrangement of books under class numbers is chronological by dates of first publication. Its advantage is in presenting the historical development of the subject, the book written earliest being on the left, the latest work on the right, and then of any given book it is evident that all those on the left were written before it, all those on the right after it. In science this has special value, while in literature the author arrangement is better. A translation system of dates devised by W. S. Biscoe, makes the numbering of the year more compact and satisfactory than to write the date in full.¹

¹ For full explanations and table of Biscoe numbers see p. 789-90

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Accession order.—A third arrangement—simpler but otherwise less desirable—is in order of accession; the first book in a class being 1, the second 2, the third 3.

It is entirely practicable to use two or even all three of these methods at the same time in the same library, one peculiarity of the system being the ease with which it may be adapted to almost any special circumstances. In fact, we use the chronological system in science where its advantages are most markt; the alphabetical system in literature where authors’ names outrank dates; the old accession-order plan in special collections, which must be kept separate, and are no longer added to, since here the extreme simplicity of the 1, 2, 3 order is secured without any sacrifice. It is still better, if this last method is used, to number A, B, C, instead of 1, 2, 3, as 26 instead of nine books may be markt with one character, and chiefly, as it is highly desirable that each book number should begin with a letter which cannot be mistaken for the end of a class number, if the two are written on one line; e. g. the first book under 513, if numberd 1, might be so written as to confuse with subsection 513.1, but 513A could not be misinterpreted. If figures are used, care must be taken to write them as a fraction or with a mark of separation; e. g. $5\frac{1}{3}$ or 513-1.

VARIATIONS PRACTICABLE IN ADJUSTING TO SPECIAL LOCAL REQUIREMENTS

Some users assume that adoption of the Decimal Classification and Relativ Index carries with it other parts of the system which the author has used at Amherst, Wellesley, or Columbia colleges or in the New York State Library. In fact, the plan in each of these libraries differs somewhat from all the others, and many of the 200 public and private libraries now using the plan have adopted still other variations; for the special constituency, circumstances, and resources of each library must be considered in deciding what is best for it. This decision should be made by one familiar, not only with the library and its needs, but also with all methods of any merit and the comparativ ease and cost of introducing them into any given library.

Caution.—Having decided to adopt the system in its decimal form as workt out and printed, it must be determined whether to adopt certain variations, noted in 1–5 below as practicable, and in some cases useful and desirable. The inexperienced user is very likely to feel entirely competent, after once reading the tables (in fact, without reading more than a single page regardless of its bearings on hundreds of other places, and without so much as looking at the author’s explanations), to institute a series of “improvements.” Experience proves that nothing could be more disastrous. It seems a simple
matter to put a topic a line higher or lower, but in some cases this may affect over 100 different entries in the Index, and there is no possible way to be sure of correcting them except by examining each one of the 20,000 heads. Frequently proposed changes, carefully studied out and submitted as improvements, are shown by our old records to have been adopted and used in the exact form proposed till considerations which had not been foreseen forced us to change to the form as printed. Even after years of experience one is not safe in pronouncing on an apparent improvement without consulting the voluminous records of previous experiments.

Those who have used the system longest have been misled into adopting changes which on trial they were compell'd to reject, going back to the original form at the cost and confusion of two changes. In so apparently simple a thing as introducing subdivisions on blank numbers, mistakes have often been made; and after it was too late to correct them the makers have regretted their neglect to consult the author and secure the advice and cooperation of those most familiar with the manifold inter-relations. Even were the independent divisions equally good, their numbers do not agree with those which will be put in the printed tables and index, so that every copy of the printed scheme will have to be corrected in ms. before it is usable in that library. The only safe rule is to make no changes or subdivisions without submitting them to the author, who will gladly advise on such matters without charge, not on the ground of any superior wisdom, nor even because of larger experience in this special work, but because in this way only can it be learnt if numbers have been already assign'd with different meanings.

The user who adopts the printed form avoids the criticism sure to be aimed at any possible scheme. The moment he makes one "improvement" he must defend all the heads or alter them to suit each critic. Much time is saved by saying that the scheme is used as printed, and blunders are the author's, not the user's. A list of changes that have been made by others without such consultation was written for this note, but is omitted lest it should seem invidious. They illustrate how easy it is for able men to make what no one questions after explanation to have been outright blunders, in improving and adding to the printed scheme. The author is always grateful for suggestions from any one, and, having already given so much time in the effort to improve this system for the common good of all users, he invites the cooperation of those interested in completing needed subdivisions and eliminating any errors that may remain either in tables or index.

The following brief notes show the most important variations found practicable in the "relativ index system," oftener called the "Dewey system." For its essentials see p. 87-9.

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I. Letter notations for changes.— To protect other users from confusion, the publishers insist, as the copyright entitles them to, that our numbers shall not be printed with changed meanings without some clear indication of the fact in the number itself. If the reasons that led us to adopt the form printed are not conclusively another, we wish to remove any obstacles to his use of the system with such changes as shall satisfy him. This can be readily done by using a letter, or some other character than the 10 digits, to mark changes; e.g., if you wish a different set of subdivisions under any number, make it out to suit, and number it a, b, c, etc. It will arrange in its exact place and exact order without difficulty, and no other user of the system will be confused by the numbers. In the index, cancel the 1, 2, 3, etc., you have discarded, and write in the a, b, c, etc., adopted. Whenever you use our exact numbers, use also our meanings for them as indexes. When you add any features of your own, add new numbers of your own that cannot be mistaken for ours, using, of course, as many of our figures as are not changed; e.g., if you want a new heading next to 551.34, Icebergs, it cannot properly go as decimal 1. Mark it 551.34a, and it arranges as wished. If you wish to change a head from one place to another, cancel it where it stands, and leave that number blank in the tables. Then insert the head in its new place as above, as if it had never been in the tables.

This plan of introducing letters or other symbols wherever each user pleases, will give all needed freedom to the personal equation and desire for originality, and meets all real wants for peculiar classification in peculiar cases.

Fiction and juvenils.— In some cases it is usually best to modify class numbers by letters as above. In popular libraries half of the circulation is often in fiction. A great saving is effected here by omitting the class number entirely and using merely the book number, it being understood that no class number means fiction. After fiction, their great circulation makes juvenils a good place to economize, if they are kept separate, as is usually thought desirable in popular libraries. The books are clasped exactly as if for adults, then a J is prefix to show their special character. This gives J alone as the class number for juvenile fiction, and e.g., J942, for a child’s history of England. These are arranged in a parallel library by themselves, so that J942 comes between J941, juvenile history of Scotland, and J943, juvenile history of Germany.

If at any time it seems desirable to abandon the separate J library, it can be done, without altering a number, by distributing the J books among the regular classes, either ignoring the J entirely, or preferably by putting all the J books by themselves at the end of each class number.

There are thus three methods: 1, to have a separate J library; 2, to have the J books by themselves at the end of each class number; 3,
to have the J books in alphabetical order among other books on the same subject. In this last case the J is useful only to call attention plainly to their juvenil character.

The same marking is used for all these plans, and one can be changed into the other by simply distributing the books the other way, and telling the attendants that it has been done. Juvenil books go with adult books of the same class, unless a special J library is made, containing all juvenils.

**Biografy.**—A similar plan is recommended for this large class, as to the best treatment of which there is great difference of opinion.

Beside the plan printed in the tables, two others are recommended, viz.; to put all biografies in one alphabet of names of persons written about, marking all the books simply B for class number, and indicating the subject or biografey by a Cutter book number; e. g. life of Grant, B G76. This is most compact for charging, and is preferd in popular libraries of large circulation.

The third plan is to distribute biografy as far as possible to the subjects it illustrates, leaving, of course, under 920 lives not bearing specially on any subject; e. g. all lives of musicians go under 780 and its subdivisions, the life of Wagner being 782.2 instead of 927.82 as in the tables. Even in this arrangement it is better to indicate that it is biografy, putting B in place of the biografy figures 92; i. e. mark Wagner’s life B782.2 (927.822). Then it arranges either with 782.2 or with biografy, as preferd, thus giving exactly the arrangement of the printed classification without changing a figure.

**Travel.**—By using T instead of B, the same principle gives a brief call number for the largely circulated class, description and travel.

**Parallel libraries.**—This treatment of fiction, juvenils, and biografy illustrates the principle. Its other chief application is for language collections. Some libraries have a constituency not reading English, and so need a parallel library in German, or Swedish, or French, etc. This is most easily made by simply prefixing an initial to the class number. If to be arranged, as with us, in one series of subjects, this may be ignored, or all German books on each subject may be group under G at the end of each class number. The German parallel library is made by simply putting all G’s together and arranging by class numbers. The initials used are G, German, F, French, I, Italian, Sp, Spanish, Sw, Swedish, Dn, Danish, Du, Dutch, N, Norwegian, R, Russian, W, Welsh, A, Arabic, etc. Where only one language is so markt in a given library, only one letter should be used, so as to avoid an extra letter in charging; e. g. S will answer either for Spanish or Swedish if used in only one sense. This plan has proved very satisfactory in actual use.

**Combining language and literature.**—The same principle can be applied also in combining each language with its literature, if it is
CONTRACTIONS. USE OF ALPHABET OR CHRONOLOGY

preferred to abolish the class, Philology, and make it simply an appendix to Literature; and the reverse would hold true if a philologist wished to abolish Literature and make it an appendix to Philology; e. g. using 82p for English philology, and adding philology subdivisions, English dictionaries would become 82p3, English grammars 82p5, etc., and arrange either just before (or just after) English literature, 820, 821, etc. For a better plan see Broken order, p. 367–374.

Reference library.—To separate books most needed, the best plan is to mark R before class numbers, and arrange the books together, as an R library. When the books are to go into the general collection again, a line can be drawn thru this letter. In the same way it often happens that a general private library is given on condition that it be kept together; e. g. the Phoenix library of Columbia College. This has P prefix to the class number, and thus is a parallel library by itself. An initial is better in such cases than a * or similar mark, since the initial helps the memory and is just as brief. The same plan applies of course if the library has an “inferno” for books not used without permits, or more distant rooms where books worth keeping but seldom called for can be arranged in a parallel storage library.

Still another provision is made in 080, 8 being the regular number for general collections (as in 508, 520.8, etc.), for these special libraries which cannot be separated because of binding or conditions of gift. But instead of the three figures in 080, a single letter, as described above, indicates the special collection, and it is easy to learn the location of the few special collections of any one library. Omission of initial o in the class “General works” was formerly recommended; e. g. 51 instead of 051 for an American periodical. But this usage is no longer advised, for the eye gets so in the habit of reading as Science any number beginning with 5, that there is a little mental hitch if, e. g., general periodicals are written 51, etc., instead of 051, etc.

Another reason is that the one and two figure numbers 1–99 are thus left available, and can be assignd to special use without confusion with tables or Index, for initial o is there printed for all numbers before 100. Yet in classification it sometimes happens that the first two figures are obvious at a glance, but time must be taken to determine the third. It is convenient to write these first figures, but if a mathematical book receives its first two figures (51), this unfinished number is liable to be confused with the two-figure number 51. This danger may be largely avoided by writing the decimal point after a blank; e. g. 51 ., to show that a figure is omitted.

2. Contractions for specialists.—The system is often used by specialists for very minute work when the decimals are run out to six or eight places. While the theory is better to write all these figures, thus showing the relation to the universe of knowledge, there is no

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practical gain to justify the labor if a great quantity of slips must be numbered. A specialist working on "Swedish poetry of the age of Gustavus" can use a single letter instead of the full 839.715 and save five characters in numbering each note; or a dash may be written for all but the last figure, thus "—5". A body of such notes can be inserted together in their place in an index at 839.715, with a colored card to mark the special groups, with little danger of confusion. Still many prefer the theoretical completeness of writing a full index number for every separate slip.

3. Use of alphabet or chronology for final subdivisions.—While our plan is decimal as distinguished from the "dictionary system," we never hesitate to use the alphabet wherever that is more useful. Indeed, the main feature of our plan is its alphabetical index. Frequently in minute divisions it is economy to arrange alphabetically or by dates without using a translation system. This is specially true in index rerums and notes of specialists. After numbers have been used as far as that is the most useful form, then either the name chosen for the head or the year can be inserted at the end; e.g. towns in a given state, individual birds or insects coming under one number, names of men written about in biography, etc. Some may prefer to adopt this plan in places where we have chosen a grouping; e.g. in chemistry, to put all the metals in one alphabet under 546.3, instead of using the numbers 546.3-99. If this change is wished, a more complete one will probably be better; viz. to put all the elements, non-metallic and metallic, in one alphabet under 546. Such use of the alphabet causes no confusion with the index, as it is simply subdividing more closely, unless, as in the last case (546.3), the alphabet replaces heads already printed. In this case, cancel all subsections in the tables by drawing a line obliquely thru the heads discarded, and mark in the margin "arranged alphabetically by elements," e.g.:

\[
\begin{array}{ll}
546.3 & \text{Metals.} \\
\hline
31 & \text{Alkali group.} \\
32 & \text{Potassium.} \\
33 & \text{Sodium.} \\
33 & \text{Lithium.} \\
34 & \text{Rubidium.} \\
35 & \text{Caesium.} \\
\end{array}
\]

Arrange metals alphabetically.

Then find each of these heads in the index and cancel all figures after 546.3, e.g.:

\[
\begin{array}{l}
\text{Potassium, inorganic chemistry, 546.3} \\
\text{Rubidium, } 546.34 \\
\end{array}
\]

This plan has special value in this place, as new elements are discovered from time to time, and can readily be inserted in alphabetic place. Still many chemists think it valuable to have similar metals grouped together for convenience of study, and to cover books written on the group as a whole, and also think it important to have a number
for rejected elements, because the literature and references about them remain, and must be provided for. The insertion of new elements is provided for, as explained on p. 144.

4. Broken order.—Another common and often desirable variation for shelf arrangement is to break the sequence of the numbers, in order to get books most used nearest the delivery desk. The theory is to keep the whole 1000 numbers in strict sequence; but a higher rule to be obeyed everywhere is to sacrifice any theory for a substantial gain. Practically it will seldom happen that it is not best to break the order of the classes. Often divisions are best arranged out of numerical place; e.g. 520 Astronomy may be wanted in a room accessible at night; fiction, juvenils, and biography are always wanted near the delivery desk in a public library, and in strict order are as likely to come at the most distant point. Numberless local reasons may make a broken order desirable. There need be no hesitation in adopting it if enough is gained, but there should be charts clearly showing where each division starts; e.g. after 430 "Preceding 830;" after 520 "In observatory," it being necessary to specify room for books entirely removed from the general library arrangement. The page of 100 divisions is reprinted by the publishers, on cards with wide margins, for just this use. Opposit each division is markt its beginning on the shelves, and it is easy to vary the order as much as necessary, tho of course the nearer the divisions run in regular order 1 to 99, the easier it is for a stranger to find his way about. Variations in the order of the sections are less wise and seldom necessary. If made, a wood or card-board dummy in the regular place should have markt on its side the present location of the section removed.

This broken-order plan is best for bringing together the philology and literature of each language without altering numbers or prefixing any letter. Let 420 be shelvd just ahead of 820, 430 ahead of 830, and so for all languages, making the general note that all 400's are shelvd just ahead of the corresponding 800's, and remembering that after the main languages four or more figures are required to indicate language alone, so that Portuguese philology goes between 868 and 869, Russian between 891.69 and 891.7, and Welsh between 891.65 and 891.66.

5. Pro and con division of topics.—It is very useful in many cases to separate the books on a topic with strongly markt sides, so that either set of views and arguments may be seen by itself. This has been done by subdivision in some cases,—e.g. 337, Protection and Free trade. In others it is equally useful, and can be indicated by an added mark,—e.g. 324.3, Woman suffrage. The number may be used for general works, giving facts, etc., and advocates and opponents may be separated by + and — for positiv and negativ, or by p and c, the initials for pro and con, which tho short, are too long for a circulat-
Decimal Classification

ing library to charge. In reference libraries, on cards, etc., most will prefer to write out pro and con, to distinguish the two groups. The order on the shelves is, of course, alfabetical, viz. 324.3, 324.3c, 324.3p; or if + and — ar used, the usual order is followed: +, —.

These five notes suggest the range of variations that may be made in the Decimal Classification and illustrate its adaptability to widely different conditions. For book numbers which decide the order of material after it is gropult into its final classes, see page 30.

Other uses

Tho the system was devised for library catalog and shelf arrangement, 17 years have developpt many new applications. Nearly every administrativ department feels directly the great economy, and in every field of literary activity this classification has been found a labor-saving tool, whose practical usefulness has exceeded the most sanguin hopes of its early friends.

Bookstores.—The plan is a great convenience to both dealers and customers, when applied to the miscellaneous stock of a bookstore. Very often a much wanted book, specially if not recently publisht, is reported "not in stock," when such an arrangement by subjects would have reveald its place at once. Specialists often find on the shelves books that they would never have orderd, but are glad to buy after examination. Experience proves it a profitable thing for a dealer to arrange his books so that each person may find those in which he is interested without examining the entire stock.

Scrap-books.—The plan has proved of great service in preserving newspaper clippings. Scrap-sheets of uniform size are used, with the class number of the subject written in the upper corner of the front edge of the page, and clippings are mounted on the sheet as in a common scrap-book. When one sheet is full, another is inserted at the exact place. Thus perfect classification is kept up without blank sheets, and at the smallest outlay of money and trouble. This "L. B. Scrap Book" is for most persons the best form. These sheets are then arranged numerically like the subject card catalog, the sheets of each class being farther arranged, when desirable, under alfabetic subheads. Scraps thus mounted are shelvd either in manila pamflet cases or in patent binders.

Index rerums.—These are best made on the standard P size (7.5 x 12.5 cm.), card or slip. Long study and experience prove that the stock "L200" is best for private indexes, etc. It costs only half as much as the "Br. 400," which is largely used for public library catalogs, takes only half the room, and gives great satisfaction. The class number is written in the upper left-hand corner, any alfabetic subject head follows at the right, and notes fill the card below. The cards are then filed in order of class numbers like the subject card catalog.
the cards of each class being further arranged, as in case of the scrap sheets, according to any alfabetical subheads. Scores of devices for convenient handling and storage of these slips and of scrap sheets and pamphlets are already manufactured. Details cannot be given here, but may be found in the full descriptiv and illustrated catalog of the Library Bureau, 43 Federal street, Boston.

Another admirable form is similar to the L. B. Scrap Book or shelf list; in fact, is simply a shelf list without the printed headings and down lines. The subject number goes in the upper corner, and all notes on that subject are written on the sheet below. This book fits an ordinary shelf, has the advantage of a full letter page in sight at once, and holds over five times as much as the P card. Of course the system can be applied to slips or sheets of any size, but there are literally hundreds of accessories and conveniences exactly adapted to these two sizes, which are used tenfold more than all others combined; so it is folly for one to begin on another size, and lose the advantages of this uniformity. If intermediate sizes must be had, the ones most used and least objectionable are Billet 10 x 15 cm., Note 12½ x 20 cm., and Ms. 15 x 25 cm. There are repeated cases where users of some other size have finally found it profitable to change to either the P, 7½ x 12½, or to the L, 20 x 25 cm., even at the cost of re-writing many notes.

Note books are best in this last described form. The much poorer method is to take a bound blank book, and assign the class numbers in order, giving about the space it is thought each will require, and, when the pages so assignd are full, note at the bottom where the rest of the material may be found.

This has all the objections of the old fixt location as compared to the relativ, and will hardly be adopted by any person who has ever seen the simplicity and economy of the shelf-list system.

Topical indexes.—The class numbers are used in indexing books read, usually by making the entries in the Index Rerum under proper numbers. The number takes the place of a series of words, and the results can be handled, arranged, and found much quicker because of the simple numerals.

The advantages that the system possesses for making topical indexes of collected works, periodicals, transactions, etc., will be evident to every librarian. These consolidated indexes may be arranged together with the card catalog of the books, or by themselves, as seems best in each case.

It would exceed the limits of this brief description to notice all the varied applications of the system. Enough have been mentiond to show its wide adaptability to the wants of the librarian and the student.

Tho much elaborated and in some points alterd, the essential character of the plan has remaind unchanged from the first. Doubtless
other improvements are still possible, and users of the scheme are invited to suggest any needed new heads, and to note any omission to be supplied in the Subject Index.

In this brief account the author has probably faild to meet some objections which may be raised, and which he could easily answer. He therefore asks the privilege of replying personally to any such objections, where they arise, believing that it will be possible to answer, if not all, at least a very large proportion.

The labor involvd in preparing the Classification and Index has been wholly beyond the appreciation of any who have never attempted a similar task. Much valuable aid has been renderd in many departments by specialists, over 100 of whom have assisted in developing the scheme. Among these are many well-known scholars, and to all a most cordial acknowledgment is made. Without such assistance, the present edition could not have been made, for many minds were necessary to supply the technical and special learning absolutely necessary in filling the minute heads. Indeed, in many subjects the author's share in the work has been limited to the modification necessary for technical adjustment to his scheme of the material prepared by specialists. To many prominent librarians the author is indebted for valuable suggestions and appreciativ criticism. While these friends are in no way responsible for any remaining imperfections, they should have credit for many improvements in the scheme made in these 17 years of revision, during the first three of which it was kept in manuscript, in order that its many details might be subjected to actual trial, and modified where improvement was found possible.

In all the work from its first publication to the present, the most extended and valued assistance has come from my college classmate, associate, and friend, Walter Stanley Biscoe, my first assistant in Amherst College Library, in the charge of which he succeeded me, resigning to accept again in 1883 the place next me in the Columbia College Library, and again resigning in 1889 to become Librarian in charge of Classification and Catalogs in the New York State Library. Of the rare unselfishness with which he has given time taken from rest and recreation to advancing work in which he shared my interest, this book is the best witness.

In his varied reading, correspondence, and conversation on the subject, the author has doubtless receivd suggestions and gaind ideas which it is now impossible for him specifically to acknowledge. The Nuovo sistema di catalogo bibliografico generale of Natale Battezzati, of Milan, adopted by the Italian publishers in 1871, tho he has copied nothing from it, more than any other single system stimulated the author's study of the problem. The plan of the St Louis Public School Library and that of the Apprentices' Library of New York, which in some respects resemble his own, were not seen till all the essential
features were decided on, tho not given to the public. In filling the
nine classes of the scheme, the inverted Baconian arrangement of the
St Louis Library has been followd. The author has no desire to
claim original invention for any part of his system where another has
been before him, and would most gladly make specific acknowledgment
of every aid and suggestion were it in his power to do so.

With these general explanations and acknowledgments he submits
the scheme, which has cost so much time and strength, with the hope
that it may prove as useful to others as it has to himself. It is a little
book, but it came not forth except by grievous labor.

New York State Library
Dec. 25, 1890

The previous editions have been dated Amherst College Library,
June 10, 1876; Columbia College Library, Aug. 10, 1885; and Co-
lumbia College Library, Aug. 30, 1888.

EDITION 7

The complete revision in progress involvs many new interrelations. As
extensiv advance testing of new schemes is impracticable, it is expected
that practical application will develop unnotist faults. Classifiers are
therefore requested to use the new tables critically and report defects of
any kind, with proposed remedies and any additional needed subdivi-
sions. All such criticisms are a decided help and regarded as a favor.

Minuteness Minute as are many subdivisions, there are none that
some have not askt for and almost none that others have not declared
needless. Since the degree to which any scheme shall be applied is op-
tional with each classifier and close analysis is useful to everyone in defin-
ing content or in clarifying differences between related subjects, even
the most elaborate schemes are printed in full if no essential objection
has been brought against them by the best qualified critics. Note type
is used for topics clearly useful only to specialists or as showing scope.
Many others probably belonging in the same category are in the regular
type of their grade, if doubtful.

Basis of revision After study of all other available systems the Decimal
classification was adopted in 1895 by the newly organized Institut Inter-
national de Bibliographie as best adapted to its projected universal sub-
ject bibliografy to cover ultimately all subjects in all languages thruout
all periods of the world's history.
Determining factors were:

1 The Decimal classification was a classification of topics independent of the language or exact synonym by which they were expressed.
2 Its notation was in itself the only international language, since it consisted solely of Arabic numerals.
3 Its decimal principle allowed indefinite intercalation.

Overdetailled as the classification already seemed to many librarians, lack of subdivision was the Institute's first difficulty and its promoters urged the author at once to enlarge the tables. State library duties at that time made concentration on the classification impossible, but cooperation and criticism were promised if the Institute would draft the required extensions. When its remarkably rapid work precluded even adequate criticism, it was authorized to publish its tables and assured that the American revision would vary from them as little as practicable.

Obviously bibliographic and general library use are so different that in some cases what is clearly best for the real needs of the scholarly specialist, where any symbols can be used on index cards, would be quite impracticable for a public library, which must have symbols that can be gilded on the back of books, readily used by the unskilled public in writing call slips, and rapidly handled by low-priced runners and young clerks. Where differences occur between the Institute tables and the 7th edition of the Decimal classification, many have been agreed to by the Institute and will appear as here given in its future editions, others are the result of serious objections made to the Institute classification, but with the expectation that agreement will soon be reached, as it is the purpose of both Institute and author to harmonize the few divergencies as rapidly as possible.

**Changed numbers** Changes are fewer than anticipated and will be given in detail in the 'List of corrections, changes and minor additions' soon to be mailed to all recorded owners of earlier editions. In many cases the changes are only a broadening of terms to meet later developments. Numbers where any change thus far occurs are:

<table>
<thead>
<tr>
<th>Old Numbers</th>
<th>New Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>021.1</td>
<td>374.2-4</td>
</tr>
<tr>
<td>.6-7</td>
<td>.7-9</td>
</tr>
<tr>
<td>339</td>
<td>375.01-04</td>
</tr>
<tr>
<td>371.46 vacant</td>
<td>378.1</td>
</tr>
<tr>
<td>.6-63</td>
<td>.99</td>
</tr>
<tr>
<td>.67-68</td>
<td>.91-97</td>
</tr>
<tr>
<td>.91-97</td>
<td>.99 vacant</td>
</tr>
<tr>
<td>372.1 vacant</td>
<td>543.8-9</td>
</tr>
<tr>
<td>.8</td>
<td>620.1</td>
</tr>
<tr>
<td></td>
<td>621.34 vacant</td>
</tr>
<tr>
<td></td>
<td>.62-63</td>
</tr>
<tr>
<td></td>
<td>.88</td>
</tr>
<tr>
<td></td>
<td>.91</td>
</tr>
<tr>
<td></td>
<td>.94</td>
</tr>
<tr>
<td></td>
<td>.99 vacant</td>
</tr>
<tr>
<td></td>
<td>642</td>
</tr>
<tr>
<td></td>
<td>643</td>
</tr>
<tr>
<td></td>
<td>647</td>
</tr>
</tbody>
</table>

(42)
Separates There is growing use by specialists who wish very detaild
tables of their subjects, but only so much else as will show the perspectiv
of these subjects in the general scheme and provide for broad classification
of other material on the same plan. As fast as demand will cover expenses,
any subject that has been elaborated will be publisht separately with
general explanation, directions for use, 3 figure tables for other subjects,
and full index: e. g. normal school libraries specializing on education will
want the elaborate new 370 scheme but may not need to carry classifica-
tion of other subjects beyond 3 figures; electric engineers may have no use
for 370, but will need all details of 621.3 with only 3 figures for other
subjects.

Bibliografic modifications The Institut International de Bibliogra-
phie has devised and uses ingenious symbols, expressing almost any
interrelations and greatly increasing numbering capacity. But unfortunately these new symbols are thought by many to be too complex for
ordinary shelf or catalog use, tho 10 years use by the Institute with
unskild clerks has proved that this objection is more a fear than the
result of fair trial. They are given here broadly for personal notes of
specialists and other close classifiers, to whom their vast practical
advantages will strongly appeal, and as a key to the notation of the
Institute's bibliografic cards. Elaborate details and explanations are
in the Classification décimale, Brussels, 1905. Obviously these symbols
allow subdivision of the same number in many different ways without
confusion.

1 Accretion sign + This is the simplest of all the symbols and indicates
exactly what it suggests, that the article so numberd treats of all the
subject numbers connected by +; e. g. 637+614.32 a work concerning
dairies and inspection of dairy products.

2 Coupling sign - This is used for coupling to a subject a series of
subdivisions belonging to another number, but only where notes in the
tables allow it, as confusion would otherwise result. As this is our sign
for "to and including," use of it in the Institute sense requires substitu-
tion of "to" for it in our sense.

3 Relation sign : This is the most useful symbol of all, as it involvs
no change of number except omission of final o by those preferring the
shortest form. It indicates merely that the subjects so connected are
considerd in relation to each other, thus affording means of expressing
almost limitless interrelations: e. g. ethics in relation to fine arts is 17:7
(or in full 170:700). Vice versa, art in its ethical aspect is 7:17; the order
of the numbers before and after the colon being dependent on emphasis
or on subject with which they are to be arranged.

4 Form sign (o) Form or generalities are exprest by a parenthetich
number beginning with o. This is farther subdivided as follows:
(o:) Form symbol: e. g. 335 (o:843) means Socialism treated in the form
of a French novel.
Subdivisions peculiar to a subject; e. g. for history it means sources. It is farther subdivided and in some cases modified by a hyphen figure; e. g. 9(44)(001-3) means Catalog of official sources of French history, (001) meaning official sources and -3 meaning catalogs, indexes, lists, etc. (01)-(09) are the same as our regular form numbers 01-09. Obviously we can not replace our long established simple form numbers by something so much more complex that it is impracticable for shelf use.

5 Universality sign ∞ The mathematical sign of infinity is used with any combination of symbols to mean 'Without limitation as to the idea express by that symbol.' With place symbol (see 6 below) it means 'including all places': e. g. 9(∞) History of all countries; 9(∞) "∞" Universal history covering all periods (see 8 below).

6 Place sign (3)-(9) These replace our regular country subdivisions found in 930-999, but do not conflict, as the Institute merely leaves D C 930-999 vacant, and writes History of France 9 (44) insted of 944. Other auxiliary place numbers indicating general region, direction, geologic place, time, etc. are also provided in place curvs.

7 Language sign = This sign preceding language numbers as found in 400 Philology, indicates subdivision by language; e. g. 398.4=9162 means Fairy tales in Irish, 91.62 being the philology number for Irish language in 400.

8 Time sign " " Numbers denoting time subdivision are written in quotation marks. The Institute scheme gives an elaborate system of time subdivisions.

9 General points of view sign oo Each of the following numbers for point of view has also a series of subdivisions:

001 Speculative: idea, purpose, plan, etc.
002 Realisation: execution, construction, etc.
003 Economic: industrial production, cost and sale prices, etc.
004 Servis and use: workings, administration
005 Equipment and apparatus
006 Bilings and establishments: details of organization and servis
007 Special personnel

10 A to Z alphabetic arrangement by name of person, place or thing is indicated according to circumstances by initial or whole name.

Sequence of these symbols in the class number may be varied by users to produce any special arrangement desired, but unless distinct notice of this is given, the sequence is arbitrary in the following order

(0) " " = : - A-Z

e. g. 91(44)(03)=2 Dictionary of French geography in English.

(44)
Index  The relativ index is greatly enlarged both by heds from new tables and by many new references to tables not yet revized, and is consolidated into a single alfabet. It aims as heretofore to include every synonym likely to be sought of subjects exprest or implied in the tables. Insted however of repeating all entries under each synonym as before, it repeats only when there are less than 3 entries; but to save space when more than 3, it gives them as a rule only once and refers from other spellings or synonyms to the one chosen; e. g. Scepticism see Skepticism, Refuse see Wastes.

Acknowledgments  Our greatest indettedness is to the Institut International de Bibliographie for its great volume of valuable work, covering almost the whole range of subjects, which forms the basis of our revision, and also for its advice and criticism during the progress of our work. Among the many friends to whose critical examination and suggestions the makers and users of the Decimal classification owe many improvements, preeminent are: R P Bigelow, librarian of Massachusetts Institute of Technology; Dr C V R Bumstead of Newark; Prof. E P Cuberly (Stanford); Prof. Charles DeGarmo (Cornell); Dr John B Roxby of Philadelphia; Prof. E L Thorndike (Columbia); the West Point military academy librarian, Dr Edward S Holden, and faculty; and Captain John Clark Wilson, U S navy.

We are indetted for much valuable constructiv work as well as criticism to C W Andrews of the Crerrar library and his staff; Dr Herbert Haviland Field of the Concilium Bibliographicum; Godfrey Dewey and Sidney L Wood in engineering; New York state library, specially to Walter S Bisoe, whose criticism is most valued of all; Professors L P Breckenridge (Sheffield scientific school) and G A Goodenough (University of Illinois); and to A L Vöge of the Concilium Bibliographicum for his untiring and resourceful aid on the technical subjects in this edition and on others not yet completed. The Library of Congress classifications and subject hedings freely placed at our disposal by Dr Herbert Putnam have been most useful in suggesting many additions to the index.

Except a year in charge of classification in the Osterhout library, Miss May Seymour has been with me for 24 years, since she entered the first Library school class in 1887. At the New York state library, classification was her department till she was promoted to director's assistant. For the past 22 years every item of work on the new editions has past thru her hands. Her responsibilities as managing editor of the A L A catalog of necessity precluded work on the Classification for several years. For this edition she has done all the editorial and much constructiv work, has secured expert cooperation, cald attention to faults or omissions and sought the best available compromizes where doctors disagreed. This supervision will continue, so that future editions will
benefit by the cumulative experience of the same editor. To this vast labor she devotes rare scholarly industry and a loyalty for which no words of thanks can be adequate. She shares my faith in the immense usefulness of the completed work, is doing nearly all the hardest work and deserves the gratitude of all who profit by this invaluable laborsaver.

MELVIL DEWEY

Lake Placid Club N Y
10 April 1911

EDITION 8

Edition 7 was exhausted a year and a half sooner than expected, thus forcing an unexpectedly early issue of Edition 8. This contains expansions of 320, 331, 369, 623.8, 624, 625, 629, 630, 971, 979.4, many new notes and index entries.

Many other additions already well advanced will be included in Edition 9, on which active work will be steadily continued.

MELVIL DEWEY

Lake Placid Club
10 April 1913
INDEX TO INTRODUCTION

Superior figures indicate the part of the page in ninths; 1, 5 and 9 indicating top, middle and foot: 27 means half way between top and middle of p. 27.

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C D means Classification décimale, the enlarged French translation of D C.
I I B means Institut International de Bibliographie.

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FIRST SUMMARY

CLASSES

0 General works
1 Philosophy
2 Religion
3 Sociology
4 Philology
5 Natural science
6 Useful arts
7 Fine arts
8 Literature
9 History
General works
Limited to none of the 9 classes

000
001
002
003
004
005
006
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008
009

010 Bibliography
011 General bibliographies
012 Of individual authors
013 " special classes of authors
014 " " forms, pseudonyms, etc.
015 " " countries
016 " " subjects
017 Clast catalogs
018 Author "
019 Dictionary catalogs

020 Library economy
021 Scope, usefulness and founding
022 Bildings
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<td>Oceanica, Polar regions</td>
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</tbody>
</table>
Complete Tables

including all the

SUBSECTIONS
# General works

## 010 Bibliografy

- .1 Theory, utility, etc.
- .2 Compends
- .3 Dictionaries
- .4 Essays
- .5 Periodicals
- .6 Societies
- .7 Education, training, see also 020.71
- .8 Polygrafy
- .9 History

## 011 General bibliografies

**Universal catalogs**

011 is by **Authors**. If by Subjects they go in 016.

A bibliography is a catalog of a special collection and so tells where the works may be found. A bibliography disregards actual location and tells what there is, but its contents can seldom be found in any one library.

012-016 include both bibliografies and catalogs. 017-019 is limited to catalogs of general collections.

## 012 Of individual authors

Alphabeted by subjects of bibliografies (bibliografists), not by compilers; e.g. Chaucer, Dante, Ruskin, etc.

A bibliografy of an individual may include either works about or by the individual, or both.

Authors on whom special collections are being made (e.g. in 800), attract their bibliografies to same number, leaving only a reference here. Other individual bibliografies class here, unless clearly limited to some subject; e.g. artists or musicians, bibliografy of Wagner 016.782.

## 013 Of special classes of authors

Subdivided like the general classification, as indicated below. Lists of writings of such classes, if limited to a special subject, class with that subject; e.g. list of historical works by Jesuits 016.9.

But in exceptional cases the bibliografy of a special class of authors may be put with that class; e.g. bibliografy of women's writings 396.58, the 013.396 would be the better number in a general library.

| .0206 | Writings of members of A L A |
| .064  | " " " French academy |
| .282  | " Roman catholics |
| .378744 | " Harvard graduates |

### .9 Writings of foreign residents in a special country

Often extended to one or more generations of descendants. This provides for bibliografies in which nationality, not subject, is the important idea.

| .91 | Authors from special country |
| .930-999 | Foren authors in special country |
| Usually preferable to .91. Divided like .930-999 by country of origin and farther subdivided with o like .930-999 by country of adoption; e.g. 013.91485 bibliografy of writings of Swedes outside Sweden, 013.9148944 writings of Swedes in France, 013.9148907 of Swedes in America. This groups under mother country; e.g. gathers together all lists of works by emigrant Swedes |

### .930-999 Foren authors in special country

Ordinary 013.94870 would be explicit enough; the longer number is not advised. This groups under adopted country; e.g. gathers under a given country all its foren authors.

## 014 Of special forms: anonymes, pseudonyms, etc.

- .1 American
- .2 English
- .3 German, etc.
015 Of special countries
Books published in the country. Publishers lists, current publications. Subdivided by countries like 940-999; e.g. 015.42, Bibliography of books published in England, as Lowndes or English catalog
The history of literature, i.e. belles lettres, poetry, drama, fiction, etc. goes, of course, with those topics in 300; but the literary history of any given place or period covering the writings on all subjects as well as in literature, is bibliography, and goes, usually, in 015, tho the literary history of some special class is 013

016 Of special subjects
Subdivided like the main classification, from 000-999; e.g. 016.01, Bibliography of manuscripts; 016.5, of science; 016.042, of English history, etc.
See also next note

**Library and sale catalogs**
Catalogs of any special subject, whether subject, author, or dictionary, go under its subject number, in 016, which is the ruling heading wherever it conflicts with another. 017-019 therefore includes only catalogs of general collections, limited to no one class or subject
Under 017-019, 4 means catalogs of books for sale, not published, by booksellers. For publishers catalogs see 015

017 Clast catalogs: systematic or logical
<table>
<thead>
<tr>
<th>.1 Public</th>
<th>.2 Private</th>
<th>.3 Auction</th>
<th>.4 Booksellers</th>
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Class here author and subject lists bound together, as they are much oftener used to see what has been written on some subject than whether a library has a certain book
For all forms of alphabetic subject catalogs, see 019. See 016 for Bibliographies

018 Author catalogs
See 011 for Bibliographies

<table>
<thead>
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<th>.1 Public</th>
<th>.2 Private</th>
<th>.3 Auction</th>
<th>.4 Booksellers</th>
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A volume containing both author and subject catalogs is more useful in 017. For auction catalogs of private libraries use 018.2, not 018.3. 018 includes accession, chronologic, and any other forms (except subject and dictionary) of catalogs of collections

019 Dictionary catalogs Alfabetico-clast, etc.
| .1 Public | .2 Private | .3 Auction | .4 Booksellers |

020 Library economy

**SUMMARY**

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**REFERENCES TO OTHER MATERIAL**

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Scope, usefulness and founding of libraries

Also scope and founding of combined libraries and museums. Support, development

.01 Arguments for libraries: purpose, benefits
   Impressiveness of libraries. Discussion of free public libraries is better cast here than in 027.4

.02 Arguments against libraries: evils of libraries
   For paternalism in library see 021.201

.03 Progress and future of libraries
   Reforms, improvements, projects, plans, prophesies, library ideals

.04 Ideals for special communities
   e.g. what a library can do for a manufacturing community

.1 Library as a storehouse
.16 Character of material appropriate to library

.2 Library as an educator; people’s university
   Material on private reading is better in 021.2
   While the work of a library is nearly all educational in a broad sense, the relations of the library to special classes of the community, outside of direct educational work thru schools and home education work, are best cast with libraries for special classes in 027.6, or when a special subject predominates, in 026

.201 Paternalism in library
   See also 024.58 Library censorship of news, 024.64 Restriction of immoral books, 024.217 Exclusion of immoral or ill made books

.25 Library as a publisher
   " bookseller

.26 Library in relation to schools and the young
   This is mainly for relations of general public libraries to school work. Class a library owned by and kept at the school in 027.8. School libraries, 371.6, is only to keep all school material together under 370. Class general work for children with children’s libraries in 027.6

.31 Relations to teachers

.32 Library’s talks to pupils, either at schoolhouses or at library, on use of library

.33 Special libraries for schools
   Specially selected from general library and lent to school either for class or general school use

.34 Work of individual libraries with schools
   Alphabeted by library; e.g. accounts of work with schools by Hartford public library under Hartford, by Osterhout library at Wilkesbarre under Osterhout

.4 Home education
   This includes all services or added fields of work undertaken by the library outside the use of books. For programs, reports, etc. of home education agencies, see 374.1-9

.41 Study clubs Reading circles, etc.

.42 Conferences, conventions, institutes, etc.

.43 Lectures
   For extension courses, see 021.44

.44 Extension courses Lecture study

.45 Entertainments: dramatic, musical, etc.

.46 Museums and temporary exhibits

.47 Science museums or collections

.48 Art galleries " "
021.5 Library as a recreation

.6 Library extension and cooperation
For work done by the state see 021.8

.61 Deliveries
See also 025.6 and 022.16

.62 Branches
See also 022.15

.63 Centralization Grouping of libraries

.64 Cooperation between libraries
Cooperation in any special department is clast with the department; e.g. interlibrary lending 025.6

.65 Traveling libraries
A collection (usually 25 to 100 volumes) either general or on one subject, lent to a community, library, study club or other organization

.66 House libraries
A small traveling library for use of a person or household. Originated at New York state library for isolated students

.67 Home libraries
Small libraries for children, each library kept at home of some child for use of a group, under supervision of a visitor. The libraries travel from group to group. Originated by Boston Children's aid society

.7 Founding Developing and maintaining interest
This is mainly for starting a library, interesting people and bringing them to the library. For most special methods of interesting those who are already readers see 025.5 and 025.6

.71 Personal canvass, visits and correspondence

.72 Circulars

.73 Adverstizing
In newspapers, posters, street cars, etc.

.74 Press Publicity
Newspaper editorials, articles, letters, etc.

.75 Schools and teachers

.76 Churches and ministers Pulpit

.77 Literary and other organizations and institutions

.78 Lectures Public meetings and addresses

.79 Library propaganda
Societies, local or general, for encouragement and stimulation

.8 Libraries and the state Library legislation

.81 State supervision

.82 Library departments or commissions
Special work done by commissions is clast by its subject. Reports of commissions, if largely a summary of the public libraries of the state, go in 027.4
If important to keep all work of commissions together, class their reports here

.83 Government aid

.831 State grants of money

.832 Local subsidies

.84 Gifts of books

.841 Public documents, etc.

.842 Copyright books
021.85 Exchanges
   See 021.866 for systems of exchanges, management, routine in individual libraries. This number is for general exchanges by state or central authority
   .851 Local
   .852 Foren
   Vattemare international exchanges, Smithsonian exchanges
   .86 Privileges
   .861 Remitted duties Free importation
   .862 Free postage Franking privilege
   .863 Lower rates or special facilities Cheap library post
   .87
   .88 State or local hindrances Politics
   .89 Library legislation
   General; laws for a special subject are classed with the subject; e.g. law for a library commission 021.83; law against injuring library books 024.8
   .891 National legislation
   .892 State
   .893 Local legislation (county, city or village)
   021.894-.899 Legislation in special countries or places
   Divided like 940-999
   .9 Support, raising funds, etc.
   For state aid separate from local help see 021.8
   .91 Taxes Appropriations Subsidies
   .92 Endowment
   .93 Gifts of money or books
   See also 021.84 Government gifts
   .94 Bequests
   .95 Subscriptions
   .96 Lectures Fairs Entertainments, etc.
   For raising money. For educational purposes see 021.43-.45
   .97 Membership fees
# Library Buildings

See also 727.8 Architecture. For care of building see 025.9

## Location, site, etc.

- Location with reference to field of work
  - Accessibility to population served, to other libraries, educational institutions, etc.
- Site
  - With reference to space, air, light, soil, slope of ground, etc.
- Provision for growth
- New buildings
- Branches
- Delivery stations
- Newsrooms, reading rooms, etc.

## Material, protection

- Material: wood, brick, stone, steel, glass, etc.
- Reliability of fitness for library buildings. See also 620.11 Strength of materials; 691 Building materials
- Fireproof construction
- Protection against fires
  - Location and reliability of apparatus: hose, extinguishers, chemical engines, standpipes, etc. For watchman see 025.9. See also 614.84 Fire protection
- Library fires, burning of libraries
- Insurance
- Other dangers
  - Flood, earthquake, cyclone, war, etc.

## Design

### Plans

- Alphabet plans, elevations, exteriors, general descriptions, etc. by name of library. Use .31-.33 only for indexing
- By kind of library
  - Divided like 027. Group plans for public libraries, 022.314, in 3 subsections
    - 022.3141 Libraries under 20,000, small; i.e. under this number list plans of such libraries, but shelve them in their alphabetical place under 022.3
    - 022.3142 Libraries from 20,000-100,000, medium
    - 022.3143 Libraries over 100,000, large
- By subject
  - Divided like 026; e.g. under 022.3234 list plans of law libraries so that they may be readily referred to in 022.3, or in journals or reports elsewhere
- By country
  - Divide like 930-999 and use like 022.31-.32 only for reference

### Construction

- Divided like 720 as follows:
  - Elevation, style
    - Only for general discussion; class elevation of a special library under 022.3
  - Plan
    - Number, distribution and dimensions of rooms; special forms, spiral, circular, etc. See note under 022.341
022.343 Artistic forms
022.344 Painted decoration, etc.
022.348 Stained glass
022.349 Accessories and fixt furniture

Include paintings, statues, busts, etc. as decoration for building. Special
library furniture, bookcases, loan desks, etc. are 022.9

022.35 Construction

Divided like 721. Class here only discussions limited to library buildings

022.36

022.37 Library rooms as part of other building

022.38

022.39 Remodeling old building

Either other buildings (churches, residences, etc.) for library purposes, or
remodeling a library to meet modern conditions

022.4 Storage and shelving

022.41 Storage

Capacity per square meter of floor, or running meter of cases; allowance for
growth

022.42 Shelving round sides of room

022.421 Wall cases

022.422 Alcoves

022.423 Galleries

022.43 Stacks

022.431 Stack rooms

Dimensions, maximum width with natural light only. Number of
rooms, one or several. Number of floors

022.432 Arrangement of cases

Parallel, radial; light; open access, supervision

022.433 Movable cases

022.434 Ailes

Position, width

022.435 Flooring of stack rooms

Solid, glass, open grating

022.438 Maximum floor load

022.44 Cases, tiers

022.441 Material; wood, metal, glass

022.442 Dimensions of case and tier, height, length

See also 022.452 Dimensions of shelf

022.443 Plan of cases

Open or closed ends and backs; 1 or 2 ledges

022.444 Fixt or movable shelves

022.445 Quarto and folio shelving

022.45 Shelvings

022.451 Material

Wood, metal, glass, stone, sheet iron, skeleton steel

022.452 Dimensions; length, depth, thickness; standard shelf

022.453 Surface finish or covering

Paint, varnish, cloth or leather covering

022.454 Shelf supports: pins, brackets
Cases and shelves for large books, lying flat
Dimensions, sliding or roller shelves, etc.
Closed cases  Doors: glass, screen or wood
Special cases
Hanging presses
New-book cases
Cases for maps, engravings, etc.
Cases for fotografas
Cases for lantern slides
Reading rooms
See also 022.63 Rooms for special material
General reading room  Central hall
Small reading rooms  Study rooms
Gallery study tables. For seminar and class rooms see 022.65
Reference room
Standard library
Women's room
Children's room
Administration and special rooms
Rooms for trustees or outside organizations
For trustees
" committees, commission, school board
" local societies
Administration rooms
Divided like 025
Rooms for special material
Divided like 025.17; e.g. 022.6332 Newsrooms
Special collections: patents, local history, etc.
Instruction rooms, etc.
Lecture room or hall, theater, concert
Seminar room, class room
Museum
Art gallery
Exhibition room
Photografic and dark room
Piano and music room
Recreation rooms
Conversation room
Chess room
Other games
Billiards
Bowling
Gymnasium

Public rooms  Lavatories, etc.

Entrance halls and corridors
Waiting room
Telephone booth or room
Lunch room
Coat room
Toilet room, lavatories, etc.
Garage, bicycle room, etc.
Residence rooms
Librarian
Janitor

Lighting

Natural lighting; windows

For architectural side see 022.358; for stained glass see 022.348
Position of windows; size and number; shape. Provision for opening; sliding, hinged or pivot sash, French casement

Skylights
Prisms

Artificial lights: materials
Lamps, oil, etc.
Gas
Acetylene
Electricity

Fixtures
Portable or semiportable lights
Table lights
Standards
Bracket lamps
Chandeliers

Lighting of stacks by electricity
FIrst or movable lights

Heating and ventilation
General hygiene of library. Divided like 697

Fixtures, furniture, fittings

General furniture

Chairs
Tables
Desks
Revolving cases
Bases
Vertical files

See also 651 Office equipment
022.92 Public conveniences
.921 Hat racks
.922 Umbrella stands
.923 Clocks
.924 Bulletin boards
.93 Furniture for exhibiting or using books, pictures, etc.
.931 Exhibition cases, fixt or movable
.932 Wing frames
.933 Easels
.934 Reference book holders
.94 Appliances for getting or carrying books or messages
.941 Ladders, stepladders
.942 Book trucks
.943 Carrying trays
.944 Mechanical carriers
   See also 621.867 Conveyers Telferage
.945 Book lifts
.946 Pneumatic tubes
.947 Speaking tubes
.948 Interdepartment telephones
   See also 621.3853 Intercommunicating telephones
.95 Elevators
   For carrying persons, goods, etc. See also 621.877. Class here only discussion of them for library use. For book lifts see 022.945
.96 Floor coverings
   For permanent flooring see 022.356
.961 Linoleum, corticine
.962 Matting
.963 Carpets
.964 Rugs
.965 Door mats: rubber, wire, etc.
.97
.98
.99 Desk fittings, etc.
   Divided like 651

023 Government and servis Personnel
For government of special kinds of libraries see 026 and 027
.1 Constitution and bylaws for governing board
   Charters. Local ordinances, etc.
.2 Appointment and tenure of officers under governing board
   State or local civil servis. Special library examinations. Promotions. Probationary appointments. Temporary or limited period appointments. Appointments by executive officer
023.3 Governing board

TrUSTEES, COMMITTEES, DIRECTORS, REGENTS, ETC.

.31 Method of selection

Election, appointment, exofficio trustees, close corporation, i.e. selfperpetuating body

.32 Number

.33 Qualifications

.34 Women as trustees

.35 Powers and duties

.36 Financial administration

.37 Time and place of meetings

.4 Executiv Consulting librarian Library expert

For appointment see 023.2. See also 023.5-.9, which apply to executiv as well as to staff

.43 Responsibilities and privileges

.5 Staff

Including all subordinate positions. For method of appointment see 023.2

.51 Qualifications

.52 Personality Character Moral and social equipment

.53 Mental equipment Natural ability

.531 General education

.532 Professional education Training

See also 020.7 Library schools

.535 Reading of librarians

.54 Physical equipment Health Exercise

.55 Staff meetings Relations to him

.56 Women as librarians

Including difference in salaries of men and women

.57 Worries and trials

.58 Longevity

.59 Library benefit associations

See also 020.626

.6 Daily hours Holidays and vacations

.61 Daily hours

.611 Records Record clock

.612 Punctuality Tardiness

.62 Hours for meals Lunch room

See also 022.6 Special rooms

.63 Special work

.631 Evening

.632 Sunday

.633 Holiday

.64 Work by hour Overtime, extra hours

.641 Making up lost time

.642 Payment for overtime

.643 Effect of overstrain on employees

.644 " " on servis
023.05  Holidays
       .651  Weekly half holiday
       .652  Legal holidays
       .66  Vacations
       .661  Time of year
       .662  Length
       .663  Continuous or in instalments
       .664  Sabbatic year
       .67  Absences for sickness or other causes
            See also 023.641 Making up lost time
       .68  Attendance at meetings
       .681  International
       .682  National
       .683  State
       .684  Local

.7  Titles and duties

.701  Specialization  Monotony  Change of work
       Understudies

.71  Executiv  Director
            Chief or principal librarian, keeper, etc.

.72  Department, division or section heds
            Librarians, sublibrarians, chiefs, heds

.73  Reference staff or faculty
            Librarians of special subjects

.74  Assistants  Catalogers

.75  Pupil assistants, apprentices, volunteers
            Paid mainly by instruction

.76  Clerical servis

.761  Stenografer

.762  Typewriters

.763  Clerks

.77  Mechanic servis

.771  Binders

.772  Electricians

.773  Carpenters

.774  Other mechanics

.78  Pages, messengers, ushers, runners

.79  Janitor servis

.791  Janitor

.792  Watchman

.793  Elevatormen

.794  Attendants, in coat room, etc.

.795  Porters and packers

.796  Cleaners, etc.
Salaries

Divided like 023.7. See 023.56 for difference between salaries of men and women.

Rules for staff

Codes

Made by trustees or librarian. For punctuality see 023.612. For absences or sick leave see 023.67.

Conversation

Personal calls or work

Soliciting money, subscriptions, contributions

Respect and care for library property

Uniforms

Curtesy and Indifference

See also 174 Business ethics; 177.1 Curtesy (social ethics).

Rules for readers

For reference and circulating departments

Readers qualifications

Age

Residence

Relations to community

Membership in society, club or institution; official position; profession, etc.

Responsibility

Reference, guarantor, money deposit

Registration

" for limited period

Fees

Assessments

Free use

Membership fees

Mercantil libraries, atheneums

Book fees

Circulating library fees. For fines see 024.6

Fees for readers card, etc.

For petty expenses to guard against wastefulness

Extra library fees; e.g. college library

Public library fee

For subscription departments see 024.7

Free use

Hours of opening

Number of hours

Time of day: morning, afternoon

Evening opening

All night "

Intermission for meals

Closing library during lunch, dinner or supper hours

Hours for reference and circulating departments

Cooperation of local libraries

Agreement on hours so that some library shall always be open.
Days of opening or closing

- Sunday
- Special religious days
- Holidays
- Vacation, summer
- Inventory Examination
  Closing for annual examination of library
- Special occasions
  Closing for recataloging or rearrangement; public calamity, deaths
- Closing for epidemics

Reference use

- Reading room rules
- Decorum in library
  Unwelcome visitors; library cranks
- Ladies in reading room
  For women's separate reading room see 022.57
- Access to catalogs
  For access to librarian see 023.43
- Open reference shelves
- Open shelves in general
- Restricted or selected access to shelves
  Restriction as to persons or subjects
- Library censorship of news
  Obliteration or suppression, in reading room copies, of newspaper reports
tending to lower morals; e.g. betting and racing news, reports of crime,
criminal trials. See also 021.201 Paternalism

Home use Loans

- Number of books
- Two book system
- Summer vacation cards
- Time: 7-day books, new periodicals
- Delinquencies Fines
  For injuries, etc. see 024.8
- Renewals
  Extension of loans by library
- Relending
  Lending by borrowers
- Reservations
- Restricted books
- Reference
- Rare or costly
- Medical
- Of immoral tendency Library inferno
  See also 021.201 Paternalism
- Interlibrary loans
- International loans
Special privileges

Extra books Teachers cards
Extra time
Remission of fines Excuses
Favord classes: trustees, faculty, staff
Lending restricted books
Subscription department
Novels and popular new books lent for fee. Extra copies for rent in public (tax supported) libraries

Injuries Abuses

Defacements
Marks; corrections, notes and comments
Mutilation
Removal of plates, maps, etc.
Mutilating newspapers
Losses by readers; payment
Thefts
Restitutions

Prevention of abuse
Methods of preventing injury and inducing better care of books. For library lasg see 027.6

Other rules
SUMMARY
Supervision 025.1 
Acquisition .2 
Utilization .3 
Classification .4 
Reference .5 
Loan .6 
Preservation .7 
Binding .8 
Shelf .9 

025 is for the librarian’s part. The trustees build and furnish (023); make rules for government and service (024), and regulations for readers (024); but the administration involves questions of its own, which, however, are closely allied to topics in 021-024 and elsewhere; e.g. the librarian must know his side of binding, and be able to give proper directions and supervision, but need not know all the details of the binder’s craft (686)

Administration includes .1 Supervision .2 Acquisition .3-6 Utilization .7-9 Preservation; i.e. the librarian’s duty to books is to Get, Use, Keep

1. Executive General supervision

1.1 Finances
See also 023.36 Financial administration of governing board

1.11 Invested funds, endowments, gifts
See also 021.9 Support

1.12 Appropriations: local or state
See also 021.8 Libraries and the state

1.13 Other money received
Fees, assessments, fines, payments for special services and investigations, etc.

1.14 Accounts: receipts and expenses, bookkeeping

1.15 Salary payments Staff payrolls
See also 023.8 Salaries

1.16 Expenses: fittings, supplies and incidentals
Class with a department supplies peculiar to it, their kind, quality, cost, etc; e.g. catalog cards with 025.3. For bookbuying see 025.2

1.17 Cost of preparing books for shelves

1.18 Printing and publications
Both preparation of material and details of printing, including size, style, type, etc.

1.21 Blanks and forms, stationery
If relating to a special department class with it; e.g. bookplates in 025.2

1.22 Publications

1.23 Reports and statistics
See also 027

1.24 Catalogs
See also 017-019. For cataloging see 025.3

1.25 Bulletins
Frequency, advertisements, etc. See also 017-019. For preparation of book lists see 025.3

1.26 Library magazine or paper

1.27

1.28

1.29 Duplicating by neostyle, carbon etc.
For machines and processes see 052. Class here discussion of fitness for library applications only
Correspondence

.151 Stationery
  Material, weight, size and headings

.152 Stenographers, dictation machines

.153 Typewriters

.154 Copiers
  Roller, press, carbons, portable. See also 025.129

.156 Letter files
  See 029.3 for methods

.17 Treatment of special material
  For general discussions. Class special work under each department; e.g.
  cataloging of incunabula in 025.3

.171 Manuscripts and rarities
  Divided like 090

.172 Pamflets

.173 Serials, documents, etc.
  1 Periodicals, magazines, etc.
  2 Newspapers
  3 Annual reports
  4 Documents; national, state and local

.174 Broadsides

.175 Clippings

.176 Maps and charts

.177 Art material
  Engravings, fotograf, drawings, lantern slides

.178 Music: scores, rolls, etc.

.179 Museum material

.18 Administration of individual libraries
  Alphabet by name of library. For administration of special kinds of libraries
  see 026 and 027
025.2 Accession Acquisition

SUMMARY

.025.21 The library and its selection
.025.22 Methods of acquisition
.025.23 Ordering and receiving
.025.24 Accessioning
.025.25 Marks of ownership
.025.26 Duplicate and exchange department
.025.29 Special material

.021 The library and its selection

.021.11 What? Proper proportion of subjects
Division of funds; endowments for special subjects; accession statistics

.021.12 Specialization by libraries
Division of subjects among local libraries. See also 021.64 Cooperation.
For collections on special subjects, economics, science etc. see 026

.021.13 Who? Selectors of books
Trustees or trustee committee; librarian; staff committee, book board;
advisory committee from outside; experts; central body (bibliographic bureau, state commission, etc.)

.021.15 How? Methods of selection
Recommendations by readers; personal examination; visits to book stores; books sent on approval; printed reviews; first selection for new library
For lists of best books, A L A catalog, annual lists, etc. see 026
For principles of selection and choice of editions see 021.2
For selection for special classes see 027.6, 027.8, 028.5

.021.16 Buying fiction
Duplicating popular fiction; extra copies of best fiction

.021.17 Rejection, exclusion, censorship
Pernicious literature; badly made books; yellow journals See also 021.201 Paternalism

.021.18 Weeding out, sifting
Separating books no longer of service to library. For withdrawal book see 025.249

.022 Methods of acquisition

.022.21 Buying new books
Local bookstore; book center, general agent; publishers; subscription agent; bids on special lists; foreen books thru home or American agent, thru foreen agent. See also special material 025.29

.022.22 Prices Discounts
Net books. For free importation, see 021.861

.022.23 Buying old books
Secondhand catalogs; remainders, trade sales; dealers in old books, bookstalls; value of old books

.022.24 Auctions
For auction catalogs, see 017-019

.022.25 Buying libraries in block

.022.26 Exchange

.022.27 Gifts
Request blanks and records; gift lists; acknowledgments; privately printed books; propagandist books
For government documents and copyright books see 021.84
See 025.265 for gifts from library to library
Ordering and receiving

For gifts, see 025.227; for exchanges, see 025.266

Ordering
Order slips or lists; order books or sheets; copies of orders; order index; order numbers

Examination for duplicates and verification
Misspelled names; changed titles; separates

Reception and opening
Express, mail, etc; frequency of shipments; free delivery

Checking bills
Prices and amounts

Collation

Receipt index

Accession book

Importance of record
Accession book vs shelflist, etc.

Printed headings Items Fulness of entries

Accession number: volume, work or invoice

Accession stamp

Withdrawal book

Ownership marks

Private marks

Stamping
Ink, embossing, or perforating stamp.
Table and foot power

Book plates Plating
See also 097

Library name on outside of book
Gilding or impressing name of library on back or covers

Card pockets

Duplicate and exchange departments

Duplicates
Definition, rules and decisions, marking, stamp, plate, etc.

Duplicates of institution's own publications
Either of library or larger organization including it; e.g. duplicate Columbia publications in Columbia university library; stock on hand

Cataloging

Arrangement

Sale for cash

Exchange
General exchange of publications; exchange accounts

Clearing house for duplicates
See also 021.852 Vattemare international exchanges, Smithsonian exchanges

Gifts to other libraries

Small libraries, hospitals, prisons, etc.
Large libraries, material not needed in small libraries deposited in great collections, see 025.218

Special material
Divided like 025.17
Catalog

For printed catalogs themselves, see 017-019. This is for cataloging
Printed, manuscript, or card; Author, subject, title, class; Dictionary or
combined; Cooperativ rules; Size notation; Cooperativ cataloging;
Duplicated titles, print or photography; Mechanical accessories, cards,
cases and fittings, drawers, trays, blocks, checks, guides, labels

Classification

For philosophic classification of knowledge, see 112 Methodology. This is
for practical classing of books, pamphlets, and notes, rather than theo-
retic speculation
On shelves; in catalogs; in dictionary catalogs; Systems of notation, fig-
ures, letters, symbols, combined; Importance and advantages; Diffi-
culties; Close vs broad classing; Mnemonic features; Basis of division;
Coordination of special subjects

Reference Reference books Aids to readers

See 028 for general discussion of reading and aids. This is limited to
library administration

Loan

See 024.1 and 024.6 for regulations
Indicators; Charging systems, ledgers vs. arros; Book cards, marks, pockets;
Call slips, readers cards; Notices, reserves; Registers; Interlibrary loans;
Mechanical accessories, slip cases, trays, tills, stamps, etc.

Binding and repair

See also 686 Bookbinding
Materials, durability, tight vs spring backs, sewing, color, lettering; Paper
covers and temporary binders; Restoring, mending, cleaning, and oiling

Shelf

See 022.9, Shelving
Arrangement; Shelf numbers; Shelf and book labels; Fixt and relativ
locations; Sizes of shelves; Arrangement and preservation of public
documents, pamphlets, papers, manuscripts, maps, drawings, and plans,
music, broadsides, clippings; Injuries, heat, gas, insects; Stock taking;
Shelf lists

Bilding: care, cleaning, safety Janitor Police

See 022 for bilding and fittings. This is janitor's department
Libraries on special subjects

Histories, reports, statistics, bulletins, handbooks, circulars, and everything about the library not more required in preceding sections. Subdivided by adding the class number of subject; e. g. a Medical library is 026.61; a Chess library, 026.794; but the catalog of a chess library is 016.794. Blanks, etc. from any library go under subjects in 025, as more used in studying topics; but, if history of individual libraries is specialized, duplicates are also desirable under the library in 026-7, thus making a complete set of its publications.

General libraries

This includes both circulating and reference; i. e. all not limited to special subjects. Subdivided if wished by countries, like 930-999; e. g. 027.744 College libraries in France. Or if wished, group all by geographic location, using 0 in 4th place to indicate no division by kind of libraries; e. g. 027.044 Libraries of France; 027.074 Libraries of N. Y. city. A private library is still class 027.1, after it has been sold or merged in a public library. But a society library changed to a free public should take 027.4 for all publications after the change.

Private and family

Proprietary, society, club and Atheneum

.3 is limited to libraries that are semiprivate, requiring an election for admission, while .3 includes all open to any one on payment of a fee. It is the difference between a club and a hotel. .3 is for libraries run as a business. A mercantile library, even tho it has endowments, if open without individual election, goes in .3 as a subsidized public subscription library. Many private subscription libraries go in .2.

Subscription Circulating

Mudie's, Booklovers, etc.

Free public Rate supported Endowd

See also 331.85; and 027, last note.

State and government

For special classes

Institution, prison, reformatory, asylum, monastic, workmen's, factory, railroad, sailors, lighthouse, itinerating. A workmen's library of books on engineering is 026.62, not here, as the subject is more useful than the class of readers.

College

School Sundayschool Parish

See also 371.64 Libraries as school equipment; 021.3 Library in relation to schools and the young.

Free newsrooms and reading rooms

See also 331.85.
028 Reading and aids
See 374.1-.2 Self education by private reading and reading circles

.1 Methods
Tasting, skipping, reviewing, making synopses, abstracts, extracts, and index rerums (see 029), book marking

.2 Choice of editions
Annotations, indexes, paper, type

.3 Courses of reading
Both discussion and lists of books
For sets of books representing prescribed courses for general culture, e.g. *Harvard classics*, see 080

.4 Fiction Novel reading
Discussion. Short selected lists may be put here, the all fiction lists are better together in 016.823 (in German libraries 016.833, French libraries 016.844, etc.)

.5 Reading of young Juvenils
Both discussion and lists of books

.6 Professorships of books and reading
Lectures. Stimulus and guidance in schools

.7 Use of reference books

.8 Aids to readers
Guidance, printed or personal. See also 028.6 and 025.5

.9 Character of reading in libraries

029 Literary methods and laborsavers
Much in 025 and 028 belongs equally under 029 in its full meaning, but practical convenience is best served by referring to 025 and 028 instead of repeating the heads

.1 Methods
Exact reference; standard sizes; use of colors; thought study; intercalation or card system (see 025.3); cooperative methods; records vs memory, etc. See 653 Abbreviations and shorthand; 154.1 Mnemonics; 025.4 Classification

.2 Appliances Laborsaving tools and devices
See also 651. Most literary laborsaving devices go also under 651. Office equipment and methods; and are best kept together there; e.g. all office and study furniture, fittings and supplies, cases, bookholders, reading desks, pigeonholes, files, etc. For pamphlet, map, etc. cases, see 025.3; for binders, 025.7

.3 Clippings Scrapbooks or files
See also Files, 651

.4 Notebooks, notetaking, abstracting, etc.

.5 Indexing Index rerums Printed and patent indexes
For alfabeting and transliteration see 025.3

.6 Authorship Writing for press Copy and proof
See also 655.25 Proofreading; 655.52 Relations to publishers

.7

.8

.9
The Divisions 030-070 below are all subdivided: 1 American; 2 English; 3 German; 4 French; 5 Italian; 6 Spanish; 7 Slavic; 8 Scandinavian; 9 Other

030 General cyclopedias
040 General collected essays
050 General periodicals Magazines
060 General learned societies Museums

Academies of Paris, Berlin, Vienna, etc. Societies on a specific subject go with that subject; e.g. 550.6 Geologic societies. See also 360 Institutions and associations, for philanthropic, political, social and similar organizations

070 Journalism General newspapers

See also 039.3 Clippings Clipping bureaus
170.1 Morals of the press
352 Liberty of the press (political science)
351.751 Regulation of the press (government administration)
396.507 Women in journalism
655 Printing Publishing Copyright
741 Cartoons Caricatures

.1 Utility Theories Relations to other professions

For government relations see 070.15

.11 Standards Ethics Influence Responsibility

General and higher view, educative influence; for degradation of the press see 070.16

.12 Endowd newspapers

Independence of popularity

.13 Liberty of the press Censorship

Individual privacy; diplomatic secrets; seditious or anarchic influence

See also political science, 323 Domestic relations

.14 War censorship

.15 Subservience to special interests

Use by sectarian, partizan or private interests. Government relations and influence: subsidies, 'reptil fund'

.16 Sensational or 'yellow' journalism

Fictitious news; scandals, murder and divorce trials; blackmail, bribes

.17

.18 Anonymous journals

Those with editors or place of publication unknown

.19 Other general questions

Comparison of field, importance and influence of newspaper, periodical and book

.2 Ownership and control

.22 Newspaper names

.23 Location

.232 Metropolitan Large city

.234 Provincial Small city

.236 Rural or village

.26 Syndicates Patent insides
070.3 Business management

.31 Staff and workmen
.311 Office staff
Manager, stenographers, bookkeepers, clerks, messengers
.312 Workmen
Compositors, foundrymen, pressmen, mechanics, laborers
.315 Hours, shifts
.318 Newspaper strikes

.32 Newspaper printing
Class here discussion of economy and other advantages of special methods and appliances
For mechanism and operation of newspaper presses see 655.31 Printing presses

.321 Size of page
.322 Methods and appliances
2 Composition: linotype, monotype, etc.
3 Stereotyping
4 Presses
.324 Newspaper cuts: wood, zinc line, halftone
.325 Frequency of issue
Daily, semiweekly, weekly, etc.
.327 Time of issue
Morning, evening, successive editions, extras
.328 Size of editions, number printed
.33 Distribution Circulation Sale
.331 Direct: subscription Mailing
.332 House delivery
.334 Indirect: newsboys, news agencies, etc.
Crying and peddling in streets and news stands
.336 Advertizing methods
Subdivided like 659.1 Advertising
.337 Specialties
As means of increasing circulation. For special departments see 070.43
Regular: foreign or marine news, stocks, sporting, etc.
Occasional: adoption of popular causes, exposure of abuses, etc.
.338 Other means of increasing circulation
Competitions, guessing contests, prizes, fairs, lotteries, expeditions, etc.

.34 Cost of production Expenses
.341 Plant: building and equipment, offices
Duplicate plant. Depreciation of machinery
.343 Supplies: paper, stationery, etc.
.344 Salaries and wages
Space rates. Pay of journalists, pecuniary inducements of vocation.
Traveling expenses
.345 Postage: pound rates, free carriage
.348 Advertizing
Necessity and cost of advertizing itself to gain circulation and secure advertisements. For methods see 070.336
**Sources of income**  
Receipts  
Sales, subscriptions, subsidies. For bribes see 070.16

**Advertising department**  
Including all business pertaining to a journal’s advertising columns. For advertising agencies see 659.1

**Foren offices**  
Subdivided like 940–999; e.g. *N Y herald* office 070.3944

### Editorial management

**General**  
Editing rules: order of departments and articles; style; newspaper diction

**Staff**: reporters, correspondents  
Organization: hours, duties. For pay see 070.344

**Editorial departments**

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<thead>
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<tr>
<td><strong>Sources and channels of news</strong></td>
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<tr>
<td>Telegraf, telephone, wireless, mail, reporters, carrier pigeons, other.</td>
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<tr>
<td>Utilization and precautions; conflicting news</td>
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<tr>
<td><strong>Press bureaus: associated press</strong></td>
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<tr>
<td>Laffan and other news bureaus. For clippings see 029.3 under Literary methods and labor savers</td>
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**Foren**

**Home**

**Local**

**Leaders, editorials**

**Local interests**  
Discussion of local affairs, questions affecting schools, library, public works, etc. For local news department see 070.4317

### Special subjects: departments and editors

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<th>.443</th>
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<tbody>
<tr>
<td><strong>Financial</strong>: stocks, business, shipping, etc.</td>
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**Household**  
**Home**  
**Women**  
**Children**

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<td><strong>Cookery</strong></td>
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| **Clothing**  
**Fashions** |  |  |

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</table>
| **Hygiene**  
**Care of children** |  |  |

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<td><strong>Women’s clubs</strong></td>
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<tr>
<td><strong>Children’s department</strong>: games, puzzles, etc.</td>
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**Recreation**  
**Sporting**

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<tr>
<td><strong>Art, musical and dramatic</strong></td>
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<td><strong>Dramatic</strong></td>
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**Literary**

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**Other departments**

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<td><strong>Science</strong></td>
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<tr>
<td><strong>Humor</strong></td>
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</table>
070.45 Voluntary correspondents  Contributors
.47 Special editions
   Sunday newspaper. Supplements. For extras see 072.327
.48 Special kinds of journals
   .481 Official journals
   .482 Religious
   .483
   .484 For foren population
      In language foren to country in which publisht
   .485 Propagandist
   .486 Professional and technical
   .487 Humorous
   .488 Literary
   .489 Other: amateur, etc.

070.5-.9 Form divisions

.5 Periodicals on journalism
.6 Press clubs  Conventions  Expositions
.7 Study and teaching of journalism  College courses
   Schools  Personal qualifications for journalism
.9 History of newspapers and journalism
   General  History of American newspapers 071, of German journalism 073,
   etc.  Class history of a particular journal with that journal

071-079 Newspapers of various countries
The 3d figures 1-9 are used as follows:
1 American  4 French  7 Slavic
2 English  5 Italian  8 Scandinavian
3 German  6 Spanish  9 Other

In large collections use geographic divisions under 1, American; 2, English, etc., as in 970 and 940-999. Because of large size and very general character, it is better to keep newspapers together here than to class with local history of the place where publishd. They could not go on shelves with ordinary books, and a reference is made as easily to them under 070 as anywhere.
080 Special libraries Polygrafy
For sets or 'libraries' so constituted as not to be readily scattered by subjects, and miscellaneous information; but class in 803 literary questions and answers, even tho not alphabetic. Collections conditioned by terms of gifts on being kept together may be put here, but for preferable treatment of sets, see Introduction p. 28, section 10, and p. 35 under Reference library. If limited to a special subject, treat like Phoenix library, but shelve the collection in a block before or after the regular books on the same subject; e.g. the Doe collection on Spanish painting, D759.6, would stand together, yet would be where it belongd with the rest of the books on that subject.

090 Book rarities
Books about these topics, and those chiefly valuable because of their rarity, go here. A rare early edition of Shakspere goes in 822.33 with reference from 099. 090 is mostly used for grouping references to books located elsewhere.

091 Manuscripts Autografs
Photografs of mss go with subject rather than here
For Diplomatics and Paleografs, see 417, and under the special language, 421.7, 431-7, etc.

092 Block books

093 Early printed books Incunabula

094 Rare printing
Aldines, Elsevirs, Caxtons, etc. Privately printed books; unique books

095 Rare binding
Noted binders, costly ornament, curious bindings

096 Rare illustrations or materials
Illuminated Illustrated by inserted plates Printed on vellum, silk, bark, etc. in gold or silver letters, etc.

097 Ownership Book plates Ex libris

098 Prohibited Lost Imaginary

099 Other rarities Curiosa Minute size, etc.
# Philosophy

## 100 Philosophy in general

Works limited to none of the 9 divisions

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<td>Societies: transactions, etc.</td>
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<td>107</td>
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<td>108</td>
<td>Polygrafy, extracts, maxims, etc.</td>
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## 110 Metaphysics

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<td>112</td>
<td>Methodology Philosofic classification of knowledge Terminology For book classification see 025.4</td>
</tr>
<tr>
<td>113</td>
<td>Cosmology Philosofic theories and discussion; for philosophy of mathematic processes see §10.1</td>
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<td>114</td>
<td>Space</td>
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<td>Force</td>
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Other metaphysical topics

Theory of knowledge Origin Limits

Doubt, denial, belief

Causation Cause and effect

Liberty and necessity

See also 233.7 Freedom; 234.9 Predestination; 159 Will

Teleology Final causes

Infinit and finite

Consciousness Personality

See also 233.6 Doctrin

Unconsciousness Automata

The soul See 218 Natural theology; 237 Future state

Origin of the individual soul

By special creation See also 213 Creation

By inheritance Traduction

See 575.1 Evolution; 136.3 Mental heredity; 233.3 Spiritual heredity

Pre-existence

Transmigration Palingenesis

Emanation See also 147 Pantheism; 212 Natural theology

Mind and body Anthropology

Mental physiology and hygiene

For influence of mind on body, mind cure, etc. see 615.851; see also 613.8

Hygiene of nervous system

Mental derangements

Insanity See 362.2 Asylums; 920.8 Lives; 616.84 Disease

Idiocy See 362.3 Asylums; 920.8 Lives; 371.922 Education

Hypochondria Melancholy See 616.852 Hysteria

Catalepsy See 616.852 Hysteria

Ecstasies

Kleptomania and other leading to crime

Dipsomania and other leading to vice

See also 178 Temperance; 616.861 Alcoholism

Mnemonic derangements

Not knowing in one state what past in another. See also 154 Memory

Occultism Witchcraft Magic

Apparitions Ghosts

Hallucinations

Divination Oracles Second sight Omens Predictions

Witchcraft Sorcery See also 272.8 Persecutions

Astrology See also 520.1 Astrology

Palmistry

Humbugs Quackery

Spiritism Table-tipping, etc. See also 289.9 Sects

Mesmerism Animal magnetism Clairvoyance
Sleep Dreams Somnambulism

Mental characteristics
See also 13 Mental physiology

1 As influenced by sex
See also 376.2 Mental capacity of women

2 physical surroundings
See also 575.3 Evolution; 573.4 Natural history of man

3 ancestry (Mental heredity)
See also 575.1 Evolution; 233.3 Spiritual heredity; 129.2
Origin of soul; 613.92 Hygiene

4 race Racial characteristics
See also 572 Ethnology

5 age
See also 136.7 Childstudy

6 physical structure and conditions

Childstudy Paidology

Including adolescence
Methods
1 Laboratory
2 Home

Observations, records Albums

Body: structure, growth, care
Limited to development period
See also 136.3 Mental heredity 612.65 Growth
371.7 School hygiene 613 Hygiene
612.64 Embryology 613.9 Heredity

Mind
Limited to period of physical development
In a general library better classt in 130 and 150 with only references here

Mental characteristics
Group by influence like 136.1-6

Children's point of view
Divided like the classification: e. g.
.7417 Ethics .7479 Games
.742 Religion .748 Literature

Delineation of children
Psychology of children from authors' and artists' point of view

In art

In literature

Abnormal children
Study of development. For methods of instruction see 371.9
For institutions see 362, 364

Physically defectiv
1 Blind
2 Def
3 Blind-def

Mentally defectiv
Divided like 132 Mental derangements; e.g. study of idiotic children
136.7622

Morally defectiv Delinquents

Wildings
Wildings: a class of children which, having been lost or deserted, have
grown up away from the surroundings of children, alone or among animals.
Paidology 1: 196 (July 1900)
Exceptionals Precocity

Backward children

Dependents

Homeless children, a public charge, lacking ideas and associations of children in families

Other abnormal classes

Boys The 'gang' The boy problem

Childhood Divided like 930-999

The child among uncivilized and semicivilized peoples

Temperaments

Physiognomy

Expression of mentality thru the body

Phrenology Mental photographs, etc.

Philosophic systems

The heads 140-149.9 are for the discussion of the systems as such. The philosophical works of authors of these various schools are class under 190, not here. From these heads refer in the catalogs to authors clearly falling under them, without attempting to label each writer as an exponent of some one system.

Idealism Transcendentalism

e. g. Plato, see 184.1; 888.4; Berkeley, see 192.3; Fichte, see 193.3; Emerson, see 191.3, 814.36

Critical philosophy

e. g. Kant, see 193.2

Intuitionalism

e. g. Reid, see 192.5; McCosh, see 191.5. See also 156 Intuitive faculty; 171.2 Ethics.

Empiricism

e. g. Descartes, see 194.1; Bacon, see 192.1

Sensationalism

e. g. Locke, see 192.2

Materialism Positivism

e. g. Hobbes; Comte, see 194.8 See also 149.2 Realism

Pantheism Monism

e. g. Spinoza See 212 Natural theology

Eclecticism

e. g. Cousin, see 194.7

Other philosophic systems

See 211 Rationalism, skepticism; 214 Fatalism

Nominalism

Realism See 146 Materialism

Mysticism See 273.2 Heresies; 189.5 Medieval philosophy

Associationalism

Optimism Meliorism

Pessimism

e. g. Schopenhauer, see 193.9 See also 216 Evil; 233 Doctrin of man

Agnosticism

See 273.8 Agnostic heresy

Nihilism

Other systems
Mental faculties  Psychology

For mind in animals see 591.51

151  Intellect  Capacity for knowing
      Genius

152  Sense  Sense perceptions
      See also physiology 612.84–88
      Passiv or receptiv faculty
      Vision
      Hearing
      Smell
      Taste
      Touch
      Muscular sense

153  Understanding
      See also 612.821 Physiologic psychology
      Activ or thinking faculty
      Conception  The concept or notion
      Association
      Abstraction
      Reflection
      Judgment
      Reasoning  Induction and deduction
      See also 160 Logic

154  Memory  Reproductiv power
      See also 132.8 Mnemonic derangements
      Mnemonics

155  Imagination  Creativ power
      Fancy  Imaging power

156  Intuitiv faculty  Reason
      For reasoning, see 153.6

157  Sensibility  Emotions  Affections

158  Instincts  Appetites

159  Will
160 Logic Dialectics
See 153.6 Reasoning power. For logic of chance, see 519 Probabilities

161 Inductive
162 Deductive
163 Assent Faith
See also 234.2 Doctrinal theology

164 Symbolic Algebraic
Logical machines
Logical topics

165 Sources of error Fallacies

166 Syllogism Enthymeme

167 Hypotheses

168 Argument and persuasion

169 Analogy Correspondence
See also 219 Natural theology

170 Ethics: theoretic and applied
Many topics in applied ethics occur also in law, specially in 343 Criminal law
See also 377.2 Ethical education.

.1 Compendes .2 Dictionaries .4 Essays .5 Periodicals
.6 Societies; Society for ethical culture .7 Study and teaching .8 Polygrafs .9 History

171 Theories Philosophy of ethics
Theories of the basis of morality

.1 Authority Will of God Christian
For rules of Christian conduct see 241

.2 Intuition Moral sentiment
See also 143 Intuitionalism; 156 Intuitive faculty

.3 Perfection

.4 Happiness Hedonism

.5 Utilitarianism

.6 Conscience Casuistry

.7 Evolutionary or educational

.8 Altruism

.9 Egoism

172 State ethics

.1 Individuals and the state Duties of citizens Patriotism
See also 320 Political science

.2 Duties of public officers Official corruption

.3 Relations to church
Duty of state as to support and protection of church
See also 261.7 The church; 322 Church and state; 272 Persecutions

.4 International ethics Peace and war
See also 341 International law
173  Family ethics
   .1  Marriage and divorce  See also 347.6 Family law
   .2  Polygamy and monogamy  See also 298 Mormonism
   .3  Duties of husbands and wives
      Infanticide
   .5  Duties of parents
   .6  Duties of children
      Home life
   .8  Masters and servants  See also 647 Servants; 337 Labor

174  Professional and business ethics
   .1  Clergy
   .2  Physicians
   .3  Lawyers
   .4  Merchants  Business men
   .5  Speculation
   .6  Gambling  See also 175
   .7  Compact  Promis
   .8  Employers and employd

175  Ethics of amusements  For amusements, see 700
   .1  Public shows and diversions  Rinks, circuses, etc.
   .2  Theater  Opera  Private theatricals
   .3  Dancing  Balls  Round dances
   .4  Games of skill: billiards, chess, etc.
   .5  Games of chance: cards, dice, etc.
   .6  Prize fighting  Animal fighting: bull, dog, cock, etc.
   .7  Racing: horse, boat, pedestrian, wheel, etc.
   .8  Novel reading
   .9  Betting  Poolselling  See 174.6

176  Sexual ethics
   .1  Chastity
   .2  Celibacy  See also 254 Celibacy of clergy
   .3  Continence
   .4  Solitary vice
   .5  Social evil  See also 258 Parish care of fallen
   .6  Adultery
   .7  Immoral art
   .8  Immoral literature
   .9
Social ethics

1. Curtesy
   See also 395 Etiquet

2. Conversation Gossip
   See also 374.7 Self culture

3. Truth Slander Flattery

4. Dress Display Sumptuary legislation

5. Caste Class feeling Wealth and rank
   See also 294 Brahmanism; 331 Capital and labor

6. Friendship Courtship Coquetry

7. Philanthropy Humanity

8. Solitude vs social obligations

Temperance Stimulants and narcotics

General works on Temperance may be divided by form into .04 Essays
 .05 Periodicals; .06 Societies; .07 Teaching; .09 History.
   See also 132.7 Dipsomania; 331.84 Laboring classes; 613.3 Beverages; 613.8
   Nervous system

1. Use of intoxicating drinks Beer drinking Medicinal use
   See also 616.861 Alcoholism

2. Total abstinence vs temperance

3. Social drinking Wine at table Treating

4. Traffic in intoxicating drinks License High license
   See also 336.27 Taxation

Prohibition
   Including legal discussion of prohibition. See also 329.81 Prohibition party

5. Reformatories Inebriate asylums, etc
   Discussion; for institutions themselves see 362

6. Tobacco

7. Opium Hashish Chloral Ether and other drugs

8. Gluttony and other intemperance

Other ethical topics

1. Morals of the press Newspapers

2. Cruelty to children
   Including general humane societies covering work for both children and
   animals. See also 173.4 Infanticide; 331.3 Labor of children

3. Cruelty to animals

4. Vivisection
   See also 614.22 Vivisection laws

5. Oaths

6. Heroism Bravery Cowardis

7. Life Dueling Suicide
   See also customs, 394.8 Dueling

8. Pride Covetousness Envy Anger Sloth Jelousy Hate
   and other vices

9. Humility Liberality Gentleness Patience Diligence
   Charity Modesty, and other virtues
180 Ancient philosophers

See also 921.9, Biography of ancient philosophy.

181 Oriental philosophers

1 Chinese: Confucius, Mencius
2 Egyptian
3 Jewish: kabala; Philo, Maimonides
4 Indian: Gymnosophists
5 Persian Sufism
6 Chaldaean
7 Sabeism
8 Phoenician
9 Syrian
10 Ionic: Thales, Anaximander, Anaximenes

182 Early Greek philosophers

Materialistic. Things are as they seem

2 Italic or Pythagorean Half idealistic
3 Eleatic: Xenophanes, Parmenides, Zeno, Melissus

Idealistic. Existence denied. Thought is the only reality

4 Heraclitus
5 Empedocles
6 Atomistic
7 Democritus
8 Anaxagoras
9 Other early Greek

183 Sophistic and Socratic philosophers

1 Sophistic: Protagoras, Gorgias, Prodicus, Hippias
2 Socrates
3 Socratic
4 Cynic: Antisthenes, Diogenes, Crates, etc.
5 Cyrenaic: Aristippus, Hegesias, etc.
6 Megaric: Euclid, Eubulides, Diodorus, etc.
7 Elian and Eretrian: Phedo, Menedemus, etc.

184 Platonic Older Academy

1 Plato

Class his works preferably in 888.4, but discussion of his philosophy here
2 Speusippus
3 Xenocrates

185 Aristotelian Peripatetic Lyceum

1 Aristotle

Class his works preferably in 888.5, but discussion of his philosophy here
2 Theophrastus
3 Eudemus
4 Strato
186  Pyrrhonist  New Platonist
      .1 Pyrrhonism  Skepticism  Pyrrho, Timon
      .2 New Academy: Arcesilaus, Carneades, Plutarch
          See 888.8  Plutarch's works
      .3 Eclecticism: Cicero  See 875.4
      .4 Alexandrian, Neo-Platonic: Philo, Plotinus, Proclus,
          Porphyry, Iamblichus  See 239.4 Apologetics; 273.1 Heresies

187  Epicurean: Epicurus  Lucretius  See also 871.1

188  Stoic
      .1 Zeno
      .2 Cleanthes
      .3 Chrysippus
      .4 Panaetius
      .5 Posidonius
      .6 Seneca  See 878.5; 872.6
      .7 Epictetus
      .8 Marcus Aurelius

189  Early Christian and medieval philosophers
      .1 Gnosticism  See 273.1 Basilides, Marcion.  See 273.2 Manichaeism
      .2 Patristic: Tertullian, Augustine, Clement, Origen
      .3 Arabian: Avicenna, Averroes
      .4 Scholastic: Scotus, Aquinas, Anselm, Abelard
      .5 Mystic: Reuchlin, Cornelius Agrippa, Paracelsus, Servetus,
          Böhme

190  Modern philosophers
      See also 921.1 to 921.8 Biography of philosophy, or lives may be put here with works, with
      references only under 920 Biography.  Philosophic works are put here, not under the School
      or System to which the author may be thought to belong.  See note under 140

191  American philosophers
      These numbers may be left blank for future use or used for the well known names
      among American philosophic writers given below
      
      .1 Jonathan Edwards    1703–58
      .2 Oliver A. Brownson  1803–76
      .3 Ralph Waldo Emerson  1803–82  See 814.36
      .4 Laurens P. Hickock   1798–1888
      .5 James McCosh        1811–94
      .6 Noah Porter          1811–92
      .7 Francis Bowen        1811–90
      .8 William Torrey Harris 1835–1909
      .9 Other American philosophic writers
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<td>Locke</td>
<td>1632–1704</td>
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<td>Berkeley</td>
<td>1685–1753</td>
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Religion

200 Religion General works

201 Philosophy, theories, methods

202 Compends, outlines, systems

203 Dictionaries, cyclopedias

204 Essays, lectures, disputations, addresses

See also 252 Sermons

205 Periodicals, magazines, reviews

206 Societies: transactions, reports, etc.

General conferences. Societies whose work is largely done by paid officers, most members merely contributing money; e.g. Pan-evangelical alliance, Bible and tract societies. Put history, reports, etc. here, but their publications of course go with subject

207 Education: theologic seminaries, training schools

Divided like 940-99

208 Polygrafi: collected works, extracts, etc.

Many collections go under a more specific hed; e.g. 240

209 History of religion

Including ecclesiastic antiquities, statistics, etc. See also 274-279 for Christian antiquities of special countries

210 Natural theology

Concerns evidence in nature exclusive of revelation, also Christian or skeptic discussion of specific topics (211-214, 216-218). For general defense of Christian theology, see 239 Apologetics, subdivided according to kind of criticism

211 Deism and atheism

Skepticism, Infidelity, Rationalism, etc.

Atheism denies existence of God. Deism accepts existence, but denies revelation and rejects Christianity. Theism believes in a god supernaturally revealed, e.g. Judaism, Mohammedanism, Buddhism, etc. Arguments from nature in support of any of these views go here

See also 231 Christian theism; 239 Apologetics; 273.8 Agnostic heresy; 149.7 Agnosticism

212 Pantheism Theosophy

See 147 Pantheism; 199.5 Origin of soul

213 Creation Evolution

See 113 Cosmology Evolution

From religious viewpoint; attempts to harmonize Genesis and geology. See also metaphysics, 113 Cosmology; and natural science, 573 Evolution

214 Providence Theodicy

See 231.5 Doctrines Theodicy

See 231.8 for Christian view
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<td>See 149.6 Pessimism; 233.2 Sin.</td>
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<td>.3</td>
<td>Dictionaries</td>
<td>Cyclopedias.</td>
</tr>
<tr>
<td>.4</td>
<td>Original texts and early versions</td>
<td>Codices. Heds for old and new testaments are given, as they are also used for 221 and 225.</td>
</tr>
<tr>
<td>.42</td>
<td>Chaldee</td>
<td></td>
</tr>
<tr>
<td>.43</td>
<td>Syriac</td>
<td></td>
</tr>
<tr>
<td>.44</td>
<td>Hebrew</td>
<td></td>
</tr>
<tr>
<td>.45</td>
<td>Samaritan</td>
<td></td>
</tr>
<tr>
<td>.46</td>
<td>Other Semitic: Ethiopic, Arabic, etc.</td>
<td></td>
</tr>
<tr>
<td>.47</td>
<td>Latin, Itala, Vulgate</td>
<td></td>
</tr>
<tr>
<td>.48</td>
<td>Greek, Septuagint</td>
<td>Aquila, Symmachus, Theodotion. Hexapla.</td>
</tr>
<tr>
<td>.49</td>
<td>Other early versions: Armenian, Coptic, Gothic, etc. 220.4 and 220.5 are pure texts. A Hebrew bible with commentary goes in 220.7 with reference from 220.44.</td>
<td></td>
</tr>
<tr>
<td>.5</td>
<td>Versions of Bible</td>
<td>Polyglots. Divide by languages, like 400. These are translations from the original Hebrew and Greek. Translations from other early texts go with them in 220.4; e.g. an English translation of the Syriac goes in 220.43.</td>
</tr>
<tr>
<td>.6</td>
<td>Hermeneutics</td>
<td>Exegesis, Symbolism, Typology.</td>
</tr>
<tr>
<td>.7</td>
<td>Commentaries on whole Bible, and annotated editions</td>
<td>For notes, etc. on portions of the Bible, see the most specific hed in 221-229.</td>
</tr>
<tr>
<td>.8</td>
<td>Special topics</td>
<td>Divided like general Classification; e.g. natural science of the Bible in 220.85.</td>
</tr>
<tr>
<td>.9</td>
<td>Biblical geografi and history</td>
<td>See 915.65, 913.33 Palestine.</td>
</tr>
<tr>
<td>.91</td>
<td>Biblical geografi, description, etc.</td>
<td>Scriptural biography. See also 922.1; 232.9 Lives of Christ.</td>
</tr>
<tr>
<td>.92</td>
<td>Antiquities, archeology</td>
<td>See also 206 Jewish religion; 933 History of Jews.</td>
</tr>
<tr>
<td>.93</td>
<td>Chronology</td>
<td></td>
</tr>
<tr>
<td>.94</td>
<td>History</td>
<td>See 933 Jews.</td>
</tr>
</tbody>
</table>
221 Old testament: texts, introductions, etc.

Divided like 220; e.g. 221.7. Commentaries on Old Testament

222 Historical books

.1 Pentateuch
.11 Genesis
.12 Exodus
.13 Leviticus
.14 Numbers
.15 Deuteronomy
.16 Decalog
.2 Joshua
.3 Judges and Ruth
.4 Samuel
.5 Kings
.6 Chronicles
.7 Ezra
.8 Nehemiah
.9 Esther

223 Poetic books

.1 Job
.2 Psalms
.3 Authorship and chronology
.4 Special groups
Messianic; Greater Hallel; Lesser Hallel; Vesper psalms; Penitential, 6, 32
38, 51, 102, 130, 143; Hebraic five books, Psalms 1-41; 42-72; 73-89; 90-106;
107-105
.5 Liturgic use by Christians
See 264.038 Anglican psalter; 245 Hymnology
.6 Commentaries on psalms
.7 Proverbs
.8 Ecclesiastes
.9 Song of Solomon, or Canticles

224 Prophetic books

.1 Isaiah
.2 Jeremiah
.3 Lamentations
.4 Ezekiel
.5 Daniel
.6 Hosea
.7 Joel
.8 Amos
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<thead>
<tr>
<th>9</th>
<th>Other minor prophets</th>
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<tbody>
<tr>
<td>91</td>
<td>Obadiah</td>
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<tr>
<td>92</td>
<td>Jonah</td>
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<td>93</td>
<td>Micah</td>
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<td>Nahum</td>
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<td>96</td>
<td>Zephaniah</td>
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<td>97</td>
<td>Haggai</td>
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<td>98</td>
<td>Zechariah</td>
</tr>
<tr>
<td>99</td>
<td>Malachi</td>
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225 New Testament: texts, introductions, etc.

Divided like 220

226 Gospels and Acts

<table>
<thead>
<tr>
<th>1</th>
<th>Harmonies</th>
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<tr>
<td>2</td>
<td>Matthew</td>
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<tr>
<td>3</td>
<td>Mark</td>
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<tr>
<td>4</td>
<td>Luke</td>
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<tr>
<td>5</td>
<td>John</td>
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<tr>
<td>6</td>
<td>Acts of the apostles</td>
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<tr>
<td>7</td>
<td>Miracles</td>
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<td>8</td>
<td>Parables</td>
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<td>9</td>
<td>Lord’s prayer</td>
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227 Epistles

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<tr>
<th>1</th>
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<tr>
<td>2</td>
<td>Corinthians 1</td>
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<td>3</td>
<td>Corinthians 2</td>
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<td>4</td>
<td>Galatians</td>
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<td>5</td>
<td>Ephesians</td>
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<td>6</td>
<td>Philippians</td>
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<td>7</td>
<td>Colossians</td>
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</table>

227.8 Other Pauline epistles

| 81 | Thessalonians 1  |
| 82 | Thessalonians 2  |
| 83 | Timothy 1        |
| 84 | Timothy 2        |
| 85 | Titus            |
| 86 | Philemon         |
| 87 | Hebrews          |

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<tr>
<td>91</td>
<td>James</td>
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<tr>
<td>92</td>
<td>Peter 1</td>
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<td>93</td>
<td>Peter 2</td>
</tr>
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<td>94</td>
<td>John 1</td>
</tr>
<tr>
<td>95</td>
<td>John 2</td>
</tr>
<tr>
<td>96</td>
<td>John 3</td>
</tr>
<tr>
<td>97</td>
<td>Jude</td>
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Apocalypse

Apocrypha

1. Esdras 1, 2
2. Tobit, Judith, Esther
3. Wisdom
4. Ecclesiasticus
5. Baruch, Epistle of Jeremy, Song of the three children
6. Story of Susanna, History of Bel and the dragon, Prayer of Manasses
7. Maccabees 1, 2, 3, 4
8. Pseudo gospels
9. Apostolic epistles and canons

Clementines See 281.1

230 Doctrinal Dogmatics Theology

General doctrinal works may be subdivided by churches like 280-289. See also 253.3

231 God Unity Trinity

1. God the Father, Creator
2. God the Son, Redeemer
3. God the Holy Ghost, Giver of Life, Sanctifier
4. Divine attributes: omniscience, omnipresence, omnipotence
5. Divine providence See also Natural theology 214
6. Divine love and wisdom
7. Divine law and miracles
8. Theodicy

Vindication of God's justis in permitting evil. See also Natural theology, 214

232 Christology

1. Incarnation Messiah
2. Logos, the Word of God
3. Atonement
4. Sacrifice
5. Resurrection
6. Second coming See also 289.3 Second adventists
7. Judgment
8. Divine humanity
9. Lives of Christ

233 Man

1. The fall
2. Sin
3. Moral and spiritual heredity See also Biology, 575.1; Psychology, 136.3; Metaphysics, 129.2
4. Accountability
5. Natural and spiritual body
6. Personality See also Metaphysics, 126
7. Freedom See also 234.9; 123; 150
8. 
9.
234 Salvation  Soteriology
  .1 Grace
  .2 Faith
  .3 Redemption
  .4 Regeneration
  .5 Repentance
  .6 Obedience
  .7 Justification
  .8 Sanctification
  .9 Predestination and freewill  See also 233.7; 123; 159

235  Angels  Devils  Satan

236  Eschatology  Last things
  .1 Deth
  .2
  .3 Millennium
  .4 Intermediate state  Sheol  Hades
     Purgatory
  .5 Paradise  Limbus patrum
     Limbo  Limbus infantum
  .6 Resurrection
  .7 Judgment  See also Christology, 232.7

237  Future state  See also Natural theology, 218
  .1 Eternity
  .2 Immortality
  .3 Conditional immortality
  .4 Heven
  .5 Hell  Gehenna
  .6 Retribution  Future punishment
  .7 Eternal punishment  See also 289.1 Universalists

238  Creeds  Confessions  Covenants  Catechisms
     Divided more closely if wished like 280–289; e. g. 238.19 Greek church
  .1 Apostles, Nicene, and Athanasian creeds
  .2 Creed of Pius 4 (Trent) and later Roman
  .3 Anglican  39 articles, A. D. 1551  See also 264.037 Liturgy
  .4 Continental protestant  Lutheran  Calvinist  Dort
  .5 Westminster  Saybrook  Cong'l  Cambridge  Savoy
  .6–.9 Of other sects  Divided like 286–289
Apologetics  Evidences of Christianity
If preferred, courses of apologetic lectures may be kept together; e.g. 239.01 Bampton; 02 Boyle; 03 Hulsean; 04 Bohlen; 05 Paddock; 08 Miscellaneous. More usefully each book is classt under the most specific head that will contain it. See also natural theology 211–218 and doctrines 231–237 for discussion of separate topics.

.1 Apostolic age
.2 Against the Jews
.3 Against the heathen
.4 Against the Neo-Platonists  See 273.1 Gnostic heresy
.5 Against the English and Scotch deists  See 211 Delam
.6 Against the French encyclopedists
.7 Against the rationalists  See 211 Natural theology; 273.8 Gnostic heresy; 149.7 Agnosticism
.8 Against the scientists  For nonchristian view, see 215
.9 Other special denials

Devotional  Practical

Didactic  For Catechisms, see 238
Meditativ, contemplativ  See also 248 Personal religion

Hortatory, evangelistic
Miscellany: religious novels, Sunday school books, allegories, etc.
But class Bunyan in 823.42 because of his literary prominence.

Hymnology  Religious poetry  See also 223.5 Psalms; 264.038 Psalter
Divided by languages, like 800, and then by churches, like 280, if denomination is clearly marked

Ecclesiology  Symbolism  Religious art
246–7 cover religious bearings. For art side see 700

Byzantine and Gothic ecclesiology  See 723 Medieval architecture; 726 Religious architecture
Primitiv church and heathen art
Images in churches  Iconoclasts
Protestantism and religious art
Emblematic and cryptografic art: catacomb symbols
Liturgic symbolism: altar, colors, lights  See also 264 Public worship
Evangelistic use of music and art, pictorial and plastic: Della Robbias
Eucharistic music: Ambrose, Gregory the Great  Later development  See also 783 Sacred music; 264.2 Public worship

Other special denial
Sacred furniture Vestments Vessels Ornaments, etc.

.1 Font Baptistery Lectern Pulpit
.2 Tabernacle Rood screen Reredos
.3 Sculpture and mortuary design
   See 718 Monuments; 726.8 Mortuary buildings; 730 Sculpture
.4 Illumination Mosaics Enamels Stained glass
   See also 745 Ornamental design; 748 Stained glass
.5 Fresco and religious painting See also 750 Painting
.6 Pallium Miter Crozier Ring
.7 Vestments and altar cloths
.8 Eucharistic vessels See also 265.3 Sacraments
.9 Ornaments, etc: crucifix, banners, thurible, incense

Personal religion Asceticism
See also 273.2 Ascetic heresy

Family devotions See 264 Public worship

Homiletic Pastoral Parochial

Homiletics Preaching See 264.6 Public worship
Divided like 252, for matter about special kinds of sermons

Sermons
The collected sermons on various topics under 252 are divided by churches and sects, like 280. The sermons on specific topics are more useful, like other pamphlets, class with the topics, e.g., a sermon on family devotions is 249, not 252.4; on strikes, is 331.89. The 9 heads below are for collections and cross references, but may be used for separate sermons if the classifier prefers

.1 Episcopal charges Pastorals
.2 Controversial Polemic
.3 Doctrinal Dogmatic See also 230 Dogmatics
.4 Practical Devotional
.5 Academic Educational See also 378.7 Baccalaureates
.6 Political Public occasions and duties
.7 Consecration Ordination
   See also 265.4 Ordination; 265.9 Consecration; 262.16 Orders
.8 Expository
.9 Memorial Obituary Biografic Historical
   Memorial of a special church goes with that church in 280. See also 920 Biografy

Pastoral visitations, evangelistic

Cleric support Celibacy
See also 176.2 Sexual ethics; 248 Asceticism; 613.89 Hygiene

Brotherhoods Sisterhoods
In the parish. For Monastic orders, see 271

Societies for parish work: gilds, sodalities
Local societies. Discussion of desirability of such work. For general societies see 206 and 267

Parochial schools Libraries, etc.
See also 377.5 Education; 027.8 Parish libraries

Parish care of sick, fallen, etc.
See 265.8 Ministry of sick; 170.5 Social evil

Other ministrations and work
260 Church Institutions and work

The church Its influence on morals, civilization, etc.

.1
.2
.3 Church vs barbarism
.4 Church and morals
.5 Church and intellectual development See also 377.3 Education
.6 Church and civilization
.7 Church and civil government See 172.3 State ethics; 322 Church and state
.8 National churches vs organic unity
.9

262 Ecclesiastic polity

.1 Ministry
.11 Apostolic succession
.12 Episcopate
.13 Papacy Primacy Papal supremacy; infallibility, 18 July 1870
.14 Priest Presbyter Minister Lay ministry
.15 Deacon Deaconess Evangelist
.16 Orders Ordination See 265.4 Sacraments; 252.7 Sermons
.17 Episcopal
.18 Presbyterian
.19 Congregational
.2 Parish Congregation See 250 for Parochial work
.3 See Diocese Cathedral system
.4 Council Synod Presbytery Congregation Convention Polity only, here. Proceedings go with churches, 281-9
.5 General or ecumenic council See also 270.2
.6 Canons Decrees
.7 Traditions
.8 Authority Church and ministerial Private judgment
.9 Disciplin Courts Trials For Canon law see 348

263 Sabbath Lord’s day Sunday

.1 Hebraic sabbath
.2 Modern sabbath Seventh day
.3 Lord’s day Christian Sunday
.4 Sunday observance
.5 Work
.6 Amusement
.7 Opening libraries and museums See also 024.4 Library rules
.8 Sunday laws
.9
Public worship  Divine servis  Ritual

See also 246, Ecclesiology; 247 Sacred furniture. General works are divided by churches like 280. Under various churches the servises may be further divided, as e. g.

.03 Anglican and American P. E. ritual
.031 Calendar  Festivals and fasts  See also 529.6 Chronology
.032 Lectionary and rubrics
.033 Morning prayer  Litany
.034 Evening prayer  Vespers  Compline
.035 Sacraments, ordinances, and servises  See also 265 Sacraments
.036 Collects, epistles and gospels
.037 Ordinal Articles  Creeds  See also 238.3 Creeds, doctrines
.038 Psalter and other  See 223.5 Psalms; 245 Hymnology
.039 History of successiv prayerbooks

264.1 Prayer  Extempore  Liturgic

See also 248–249 Private and family prayer

.2 Music  Singing  Instrumental  Praise meeting

See also 783 Sacred music; 246.7, 246.8 Ecclesiology

.3 Scripture readings

.4 Antiphonal or responsiv readings

.5 Confessions of faith  Creeds  See also 238 Creeds

.6 Sermons  Exhortations  Instructions

See also 251 and 252 Preaching and sermons

.7 Prayer and conference meetings

.8 Class and covenant meetings  Love feasts

.9 Sacramentals  See also 265 Sacraments

265 Sacraments  Ordinances

.1 Baptism

.2 Confirmation  Church fellowship

.3 Eucharist  Holy communion  Sacrifice

.4 Holy orders  Ordination  See also 262.16 Ministry; 252.7 Sermons

.5 Marriage  See also 173 Ethics of the family

.6 Penance  Confession  Absolution

.7 Extreme unction  Viaticum

.8 Ministry of sick and ded: faith cure, healing, burial

.9 Consecration  Dedication  See 262.16 Ordination; 252.7 Sermons

266 Missions  Home and foren

Subdivided by churches, like 280. See also 377.6 Missionary schools

Missions in special countries or places, including those of all churches, go under the geographically divided Religious history, 274–279, with references under 266

267 Associations

General societies demanding of members active personal work. For local societies, see 256. For Bible, tract, and similar general societies see 206

.1 Religious societies of both men and women

.11 U. S. Christian commission

.15 Salvation army
Religious societies of men

For Y. M. C. A. see 267.3; missionary societies, 266; ministerial education societies 207; Bible societies, 206

17th century or earlier

18th century

19th century; interdenominational and undenominational

In educational institutions

Divided like 940-99. If preferred, cancel .231 and put all together in .234-9. For work of Y. M. C. A. see 267.361

Nasmith societies

Young men's Christian unions; i. e. not "evangelical," etc.

Others Divided like 940-99

19th century; denominational

In educational institutions

Divided like 282-289. If preferred, cancel .241 and put all together in .242-9. For work of Y. M. C. A. see 267.361

Young Men's Christian associations

Active membership confined to members of "evangelical" churches

To shorten the number, X may be used for 267.3 throughout; i. e. X 19 would mean "Work in small towns"

Objects, field and extension

Need and objects

Limits: for and by young men and distinctively religious

Relation to the church

International work

National work

State work

District work

Work in towns able to support a general secretary

Work in small towns

Buildings

See also library buildings 022

Location

Provision for growth

Materials and protection against fire

Plans

Number, size and arrangement of rooms

Reception, social rooms and parlors

Library

Reading, lecture, and class rooms See 022

Administration and special rooms Boys' rooms

Physical culture rooms

Lighting, heating, and ventilation

Fixtures, furniture, and fittings

Organization

Incorporation Constitution and bylaws

Branches and suborganizations Including women's work for young men

Managers Officers serving without pay

1

Trustees (in charge of real estate)

2

Directors

3

President

4

Treasurer

5

Recording secretary

6

Executive or corresponding secretary

Standing committees

1

Importance; enlistment and composition

2

Principles and methods of organization

3

Names and duties See also Department work 267.35
Membership

1. Membership committee
2. Classes of membership
3. Securing and retaining members
4. Development of active members
5. Associate membership and its relations

For members' meeting see Social work, 267.3544

Salaried officers: duties, qualifications, training

1. General secretary and assistants
   - Including international and state secretaries. See also 267.314-.316
   - Offic and work
   - Qualifications
   - Relationship
     - To churches and pastors
     - To officers, directors, and committees
     - To other employees
     - To the members
     - To the religious work
     - To the business community
     - To fellow secretaries
   - Personal hints
     - Considering a call and beginning work
     - Spiritual and intellectual growth and health
     - Offic work, system, and economy
     - Personal appearance and conversation
     - Ladies' company
     - "Secretarialism"

2. Librarian and assistants
   - May be divided like 267.341. See also Library administration, 025 and 267.3532

3. Physical director and assistants
   - May be divided like 267.341. See also 267.355 and 613.7

4. Other salaried officers

5. Training; need and methods, demand and supply

6. Training schools

7. Training by apprenticeship

8. Institutes
   - Methods only; for reports see 267.39

9. Conferences

Local work by departments

1. Business department
   - Finance committee
   - Annual budget
   - Endowments and other sources of income
   - Solicitation, collection and disbursement
   - Financial book-keeping
   - Debt, taxes, etc.
   - Records and statistics
   - Advertising, including anniversaries and parlor conferences
   - Printed matter

2. Religious department
   - Committees
     - Individual Bible study
     - Methods and helps
     - Bible classes
     - Training classes
     - Personal work
     - Bible readings
     - Song services
     - Evangelistic meetings
     - Social religious meetings
     - Other meetings in the rooms
     - Work outside the rooms
       - In public institutions, sermons to young men, distribution of religious papers, invitations, etc.
Educational department
Committees
Library See 267.342 and 025
Reading room
Classes
Lectures and talks
Literary societies

Social department
Committees
Reception committee
Social rooms and fittings See 267.32
Receptions Socials Entertainments
Music
Amusements Including games of skill See also 794

Physical department
Committees
Aim and benefit of department
For Physical director see 267.343; Equipment, methods, etc., 613.7

Information, relief, etc. department
Boarding house bureaus
Employment bureau
Savings bureau
Visitation of sick
Destitute young men

Boys department
Committees
Religious work
Educational work
Social work
Physical work
Information, relief, etc.

Janitor's department: building; care, cleaning, safety Police

Work among special classes
Y. M. C. A. only; other religious societies of men go in 267.2

College and school
History and methods in general
International reports Including Northfield meetings
International periodicals
For state and sectional reports and periodicals see 267.39

Railroad employees
History and methods in general
International reports

Commercial travelers

Foren-speaking
Divided like 400; e.g. 3 German, 4 French, 5 Italian, etc.

Colored men

American Indians

Soldiers U. S. Christian commission, 267.11

Sailors

Other Policemen, firemen, fishermen, lumbermen, mutes, etc.
267.4 Religious societies of women

19th century; interdenominational and undenominational

Women's Christian associations

Divided like 267.3. To shorten the number, W may be used for 267.432 throughout; e.g., W1 would mean 'Objects, field and extension'

King's daughters

19th century; denominational Divided like 282-289

Young Women's Christian Associations

Active membership confined to members of 'evangelical' churches

Divided like 267.3-399

To shorten the number Y may be used for 267.5; e.g., Y3, Organization, instead of 267.53

Religious societies of young people For Sunday schools see 268

Interdenominational and undenominational

Young people's society of Christian endeavor

1 Reports, etc.

2 Periodicals

Denominational Divided like 282-289

Religious societies of boys Not Y. M. C. A. Divided like 267.6

Religious societies of girls Not Y. W. C. A. Divided like 267.6

268 Sunday schools

269 Revivals Retreats Parish missions
## Religious history

### Ancient period: to conversion of Germans

See 281.1-281.4, for collected works of early theologic writers, etc. 270 is for religious history of these periods

For religious history of special countries, either general or for special periods, see country divisions, 274-279; e. g. English reformation, 274.2

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<th>Number</th>
<th>Period</th>
<th>Centralization</th>
<th>Time Period</th>
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<td>.1</td>
<td>Apostolic Nativity to Constantine</td>
<td>Centralization</td>
<td>A.D. 325-787</td>
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<td>.2</td>
<td>Period of ecumenic councils</td>
<td>Centralization</td>
<td>A.D. 325-787</td>
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#### 325-787

- The Greek church acknowledges these 7 councils as really Ecumenic. Anglicans generally recognize only the first 6. See also 262.5 Polity

<table>
<thead>
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<td>First of Nice</td>
<td>A.D. 325</td>
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<td>.22</td>
<td>First of Constantinople</td>
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<td>First of Ephesus</td>
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<td>Chalcedon</td>
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<td>.25</td>
<td>Second of Constantinople</td>
<td>533</td>
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<td>.26</td>
<td>Third of Constantinople</td>
<td>681</td>
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<td>.27</td>
<td>Second of Nice</td>
<td>787</td>
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</table>

### Medieval period: Charlemagne to Luther

270.3 Charlemagne Papacy vs empire A.D. 787-1054

- Church planted among the Germans. Feudalism. Great schism, east vs west, 1054

<table>
<thead>
<tr>
<th>Number</th>
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<th>Time Period</th>
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<td>Hildebrand Roman supremacy</td>
<td>A.D. 1054-1200</td>
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#### 1054

- Hildebrand Roman supremacy A.D. 1054-1200
- Temporal power. Scholasticism. First 3 crusades

#### 1200

- Later medieval Renaissance A.D. 1200-1517

### Modern period: Reformation to present

From A.D. 1517, theology in Europe is in 3 types, viz: Roman, Lutheran, and Reformed or Calvinistic

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#### 1648-1789

- Peace of Westphalia to French revolution A.D. 1648-1789
- Union of church and state. Deism. Materialism

#### 1789

- Modern Rationalistic A.D. 1789-
Monastic orders

Including monasticism and monastic foundations
See also 255 Brotherhoods; 377.3 Monastic schools

| .1 | Benedictines | founded A. D. | 529 |
| .2 | Dominicans | " | 1170 |
| .3 | Franciscans | " | 1182 |
| .4 | Augustinians | " | 1256 |
| .5 | Jesuits | " | 1540 |
| .6 | Passionists, 1720 | Redemptorists, 1732 |
| .7 | Lesser Roman orders |
| .71 | Carthusians | founded A. D. | 1086 |
| .72 | Cistercians | " | 1098 |
| .73 | Carmelites | 12th century |
| .74 | Trappists, 1150 | Capuchins, 1525 |
| .75 | Sulpicians, 1642 |
| .76 | Oblates |
| .77 | Lazarists, 1624 |
| .78 | Christian Brothers, 18th century | De la Salle |
| .79 | Other lesser Roman orders |
| .8 | Anglican brotherhoods |
| .9 | Sisterhoods |
| .91 | Sisters of Charity | Vincent de Paul | founded A. D. | 1629 |
| .92 | Sisters of Mercy | Augustinian | " | 1831 |
| .93 | Ladies of the Sacred Heart | Jesuit | " | 1800 |
| .94 | Sœurs de bon Secours | Nurses |
| .95 | Little Sisters of the Poor |
| .96 | Contemplativ Cloisterd nuns |
| .97 | Other Roman sisterhoods |
| .971 | Carmelites |
| .972 | Second of St Dominic |
| .973 | Franciscans |
| .974 | Ursulines | A. D. | 1537 |
| .975 | Of the Visitation | " | 1610 |
| .976 | Of St Joseph | " | 1650 |
| .977 | Of the Presentation | " | 1777 |
| .98 | Anglican sisterhoods |
| .99 | Other protestant orders | Deaconesses | (Kaiserwerth) |
272 Persecutions

See also special sects, 280; and history of special countries, 940–999

.1 Apostolic church by imperial Rome 1st–4th century

.2 Heretics by Inquisition or Holy Office Since 1470

.3 Waldenses and Albigenses 11th–12th century

By Roman church. See also 283.4. Protestant sects

.4 Huguenots French protestants

By Roman church. St Bartholomew, 1572. Edict of Nantes, 1598; revocation, 1685

See also 284.5 Protestant sects

.5 Molinists and Quietists

By Roman catholics. Close of 16th century to destruction of Port Royal, A. D. 1709. See also 273.7 Heresies

.6 Marian Anglican reformers by Mary A. D. 1553–58

.7 Elizabethan Later 16th century

Persecution of Roman church by Anglicans

.8 Quakers Baptists Witches Later 17th century

Persecutions by puritans. See also 133.4 Witchcraft

.9 Other persecutions

273 Heresies

For the history of special doctrines see 230–235, Doctrinal theology

.1 Gnostic First 3 centuries

Reaction of pantheism and heathen philosophy on Christianity. See also 189.1 Gnostic philosophy; 186.4 Neo-Platonism; 239.4 Apologetics

.2 Manichaeism Parsee dualism 3d century

Opposition of good and evil. Mystic. Ascetic. See also 149.3 Mysticism; 248 Asceticism; 269.8 Shakers, Mystics

.3 Sabellian

That the Trinity is not of persons, but of successive manifestations. About 250 A. D. Held by Schleiermacher, Bushnell, Swedenborg

.4 Arian Denying divinity of Christ 4th century

.5 Pelagian 5th century

Denying original sin and supernatural grace

.6 Antinomian 16th century

Denying force of law, under Gospel dispensation

.7 Molinist and Jansenist Pietists A. D. 1580–1700

Port Royal. Augustine's doctrine of grace vs the Roman doctrine of good works

.8 Agnostic

Denying possibility of revelation. Holding that theology and the supernatural lie without the domain of human knowledge. See also 149.7 Philosophy; 211 Atheism; 239 Apologetics

.9 Minor heresies

274–279 General religious history by countries

274–279 is divided geographically like 940–999
280 Christian churches and sects

281 Primitiv and Oriental churches

- **Apostolic church, to time of great schism, A. D. 1054**
  Works of apostolic and Christian fathers here; use 270 for religious history of these periods. See also 229.9 Apocryphal books

- **Primitiv apostolic, to end of first century**

- **Ante-Nicene, A. D. 100-325** See also 270.1

- **Post-Nicene, A. D. 325-1054** See also 270.2-3

- **Oriental churches**
  - *Armenian*
  - *Coptic*
  - *Nestorian*

- **Eastern or Greco-Russian or Holy orthodox church**
  The great schism, mutual excommunication, A. D. 1054, separates the Catholic church into Eastern and Western churches, which from this time have separate histories

282 Western or Roman catholic church

Divided geographically like 940-999

283 Anglican and American P. E. church

Divided geographically, when needed, like 940-999; e. g. the Anglican church in Australia is 283.94; in India, 283.54

284 Continental protestant sects Protestantism

- **Lutheran Reformd** See also 285.7, Reformd church in America
- **Calvinist Zwinglian** See 285, and 286.1
- **Hussites Anabaptists Leyden** See 286.7
- **Albigenses Waldenses Vaudois** See 272.3
- **Huguenots** See 272.4
- **Moravian**
- **Scandinavian Swedish**
- **Old catholic**
  Here are classed those denying papal infallibility, or for other cause cut off from Rome, tho Catholic in other respects

285 Presbyterian Reformd Congregational

- **Presbyterian church in America**
- **Presbyterian church in Great Britain**
- **Cumberland presbyterian**
- **United presbyterian**
- **Reformd presbyterian**
- **Minor presbyterian sects**
- **Reformd (Dutch) church in America** e. g. 285.77471, in N. Y. city
- **Congregational**
- **Puritanism**
Baptist
1 Calvinistic 2 Free will 3 Seventh day

Methodist
1 Wesleyan methodist
2 Calvinistic methodist
3 Welsh Calvinistic methodist
4 Primitiv methodist
5 Primitiv Wesleyan
6 Methodist episcopal
7 Protestant methodist
8 African methodist
9 Minor methodist sects

Unitarian  See also 273.4

Minor Christian sects
1 Universalist
2 Campbellite or Christian Disciples
3 Adventist  See also 232.6 Second coming of Christ
4 New church or Swedenborgian
5 Catholic apostolic
6 Quaker Friends Hicksites
7 Mennonite
8 Shaker Mystic  For Mystic heresy see 273.2
9 Other minor Christian sects

Ethnic Nonchristian

Comparative and general mythology
Greek and Roman mythology
Teutonic and Northern mythology
Brahmanism Buddhism
For other Indic religions, see 299.11.  See also 891.2 Sanskrit literature; 177.5 Caste
Parseeism Zend Avesta
For other Iranian religions, see 299.15.  See also 891.52 Zend literature
Judaism  For other Semitic religions, see 299.2
Mohammedanism
Mormonism  See also 173.2 Polygamy
Minor nonchristian religions
Subdivided ethically like 491-499; e.g. Egyptian religion, 299.31; Afghani religion, 299.158
Sociology

300 Sociology in general

301-309 all have Sociology in general as their subject, but it is treated in these various forms. A periodical on Education is 370.5, not 305, which is only for periodicals on Sociology in general. In Sociology, most works in these forms are limited to one division; e. g. to Political economy, Education, Law, etc. All these have the same subdivision of General works; i. e. essays on the various divisions are 310.4, 320.4, 330.4, and so on to essays on Manners and Customs in general, 390.4. A naught in any class number shows the subject to be general, not specific.

301 Philosophy, theories

See also 901 Philosophy of history

302 Compendes, outlines

303 Dictionaries, cyclopedias, etc.

304 Essays, lectures, addresses

305 Periodicals, magazines, reviews

306 Societies: transactions, reports

307 Education: teaching, study, etc.  See also 370

308 Polygrafy: collected works, extracts, etc.

Put here collected works of statesmen; e. g. works of Adams, Jefferson, etc.

309 History of social science

.1 Social surveys

Divided like 940-999  Better class in general libraries in 914-919

310 Statistics

311 Theory, methods  Science of statistics

312 Population (progress of)  Vital statistics: births, deaths, mortality, longevity

See also 614.1 Registration and vital statistics

Statistics are divided geographically like 930-999; e. g. Population of Maine 312.741

313 Special topics

314-319 General statistics

Divided geographically like 940-999

The statistics of any special matter are put with the subject, e. g. of Domestic animals in 636, of shorthand in 653, of French novels in 843, of Theaters in 792, etc. Statistics too general to be included in any topic are divided by countries. Statistics of New York city would be 317.471, but the statistics of Medicine in New York would be put with 610, Medicine; i. e. the topic outranks the locality.
### 320 Political science

#### 320.1 Theory

| .11 | Origin of the state |
| .12 | Nation and territory |
| .121 | Ethnographic |
| | People of same race comprise the nation |
| .124 | Geografic |
| | Unity of territory |
| .126 | Expansion Acquisition of territory |
| 1 | By discovery |
| 3 | occupation and possession |
| 5 | cession Annexation |
| 7 | purchase or exchange |
| 9 | conquest or revolution |
| .127 | Alienation of territory |
| .128 | Frontiers Boundaries |
| 1 | Natural boundaries |
| 2 | Mountains |
| 4 | Rivers |
| 6 | Lakes |
| 8 | Coast |
| 9 | Artificial boundaries |
| .15 | Nature, entity, concept of the state |
| .151 | Juridic theory |
| .152 | Political theory |
| .153 | Social and evolutionary theories |
| .154 | The state as a moral organism |
| .157 | Soverenity |
| | See also 341 International law |
| .158 | Allegiance Loyalty, etc. Patriotism |
| | See also state ethics 172.1 Duties of citizens |
| .159 | National growth and decay |
| .18 | Symbolism, emblems: arms, flag, seal, etc. |
| | Better classt in 929.8 and 929.9 |

#### 321 Form of state

| .01 | Simple state Soveren state |
| .02 | Mirt state |
| .021 | Federal state Bundestaat Federation |
| .022 | Confederation of states Staatenbund |
| | Union of soveren states Alliance |
| .023 | Soverain states |
| .025 | Semisoveren, dependent and vassal states |
| .026 | Mediatized state |
| .027 | Protected state |
| | Protectorates, spheres of influence |
| .028 | Vassal states |
| .03 | Empire, imperialism |
| .04 | The world state |
| .041 | Internationalism |
| .07 | Ideal state Utopias |
| | See also 335 Communism and socialism |
| .09 | Change cf form of state |
| .092 | Revolution |
| .094 | Coups d' état |
321.1 Family Patriarchal age
.2 Tribes Clans Marks Village communities
.3 Feudalism
.4 Democracy Pure; e.g. Athens, town meeting
.5 Aristocracy e.g. Italian republic; medieval German cities
.6 Absolute monarchy
.7 Constitutional monarchy
.8 Republic Modern democracy, delegated powers

322 Church and state See also 172.3, State ethics; 261.7, The church
323 Internal relations with groups and individuals

.1 Movement and questions of nationalities, races and languages
   Divided by country like 030-099; e.g. struggle of nationalities in Austria
   323.1435 For emigrant nationalities in a country see 325

.2 Political struggles and troubles
   Revolutions, revolts; riots, uprisings. See also 321.09

.3 The state and social groups
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   .33 Proletariat, laboring classes, pesantry
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.4 The state and the individual
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   .41 Equality of individuals, races, etc.
   .42 Equality before the law; justis, etc.
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   .44 Liberty
      .441 Freedom of action
      .442 " " conscience
      .443 " " speech
      .444 Academic freedom
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      .445 Freedom of the press
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      .446 Freedom of drama
         " " art
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   .47 Right of assembly, association
   .48 Right of petition
   .49 Limitation and suspension of individual rights and guarantees
      .491 Martial law
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323.6 Citizenship

.61 Laws Divided by country like 930-999
.62 Naturalization
.63 Alien races and citizenship
.64 Loss and restoration of citizenship
.65 Duties and obligations of citizens
Scholar as citizen
.67 Rights of aliens
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.164 " " students

.17 Exclusion from and suspension of suffrage

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.173 Pauperism

.174 Conviction of crime; bribery, selling vote

.177 Government servis
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Civil servis, police officers

.178 Other special classes
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.21 Electoral systems

.211 Universal suffrage

.212 Partial suffrage, limited

.213 Plural vote

.214 Class vote, class system

.215 Compulsory voting

.22 Constituencies and representation of interests

.221 Single member constituency
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.222 Multimember constituency
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.223 Minority representation
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.224 Proportional representation
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- Declaration and presentation of candidacy

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Direct "

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- Poll lists and tally sheets

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Absent voting Voting by mail
- Traveling salesmen, railway employees, mail clerks, etc.

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Offis groups Australian ballot

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- Miscount of ballots; certification of false returns

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2 Coolies and contract slaves

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  .33 Membership Election
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  .35 Sessions
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  .39 Form of legislature

.31 Upper house
.32 Lower "
.33 Membership Election

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- Membership without voting power

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  2 Expresidents
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  - For life or for a term
2 Hereditary right
3
4
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7 Vacancies, resignations
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8 Contested elections

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2 President protem

3 Secretaries, clerks

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4 Sergeant at arms

5 Pages, messengers, door keepers

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General conception Nature and character
  Definition Limits and extent
Classification Divisions
Importance Utility
Language, terminology, symbols, abbreviations
Scientific systems
Mercantil system
Physiocrats
Laissez faire
Historic school
Relations to other classes
  Divided like the Classification
to ethics
  " politics
  " literature

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By periods
  Primitiv -476 A. D.
  Medieval 476-1500 A. D.
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Biografy
  Preferably classt in 923.3
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Theory
  Freedom of labor
  Importance, utility, dignity of labor
  Psychology of labor
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Periodicals
Societies, bureaus, etc.
  Government departments, bureaus
Education Exhibitions
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History
Relations of capital to labor
Remuneration for work
  Wages, hire, pay, salary, fees
  General
    Statistical theory
    Wage fund
    Relation of wages to production
      " " " cost of living Living wage
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    Extra pay
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331.23 Bases of wages and methods of payment
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.235 Methods of payment
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.262 Wages for state labor
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.5 Work at reduced wages
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.52 Convents Ouvroirs (workshops)
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   marketing products at prices so small as to lower wages of selfsupporting
   workers
.54 Contract labor
.55 Apprentis labor
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.56 Peonage
.57 Compulsory labor Corvée
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.81 Duration of work Rest
   Length of day
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.812 Night work
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.814 Overtime Supplementary hours
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Foren

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.9  Socialist communities
     Divided by countries like 930-999

336  Finance
.1  State domain and properties
.11  Management and income from rents
.12  Sale
.13  Land claims
.14  Land grants to railroads, colleges, etc.
     See also 379.12 Education
.19  State monopolies
     e.g. French state monopoly of tobacco trade.  See also 338.8 Monopolies
336.2 Taxation
  .21 Direct
  .22 Real estate
  .23 Personal
  .24 Income
  .25 Poll
  .26 Customs: specific or ad valorem See 337 Protection
  .27 Excise, licenses: liquor, dog, legacies, stamp duties
    See also 178.4
  .28 Local taxes See also 379.13 School funds
  .29 Assessment and collection of taxes

3 Loans Public securities
  .31 Interest-bearing securities See also 337.8 Interest
  .32 Floating det
  .33 Sinking fund
  .34 Public credit
  .35 Annuities
  .36 Repudiation

4-9 Finance of special countries Divided geographically like 940-999

337 Protection and free trade
See also 336.26 Customs
  .1 Absolute free trade No tariff
  .2 Free trade: i. e. tariff for revenue only
  .3 Protection
  .4 Subsidies
  .5 Duties on special articles: steel, wool, etc.
  .6 " " raw materials
  .7 " " books and works of art
  .8 Duty free importation for colleges, etc.
    See also 021.861 Libraries
  .9 Reciprocity

338 Production Manufacture Prices
  .1 Agricultural products
  .2 Mining products See also 332.41 Coinage metals
  .3 Water " Fish, ice, etc.
  .4 Manufactured products Machinery in industry
  .5 Prices
  .6 Gilds See also 331.88 Trades union
  .7 Corporate industries
  .8 Monopolies See also 336.19 State monopolies
  .9 Industrial legislation Divided geographically like 940-999

339 Consumption of wealth Pauperism
See also 379.22 Illiteracy; 362.5 Pauper asylums; 331.6 Pauper labor
Law

General works
Most periodicals belong in Private law, 347.05

1. Philosophy  Theories  Law of nature

2. Antiquities: torture, trial by ordeal, duel, etc.

3. Trial by jury

4. Comparativ legislation  See also 614.23 Expert testimony

5. Medical jurisprudence

6. Education  Law school  Officis training

7. Polygrafia  Collections

8. Legal anecdotes and miscellany

Public law

341 International law

1. Philosophy; .02 Compendia, etc., like 300

2. International congresses

Of diplomatic agents for settling international relations; Hague tribunal. Congresses on special topics go with their subjects; e.g. 332.44, on Coinage

3. Treaties: texts and history

Class with most important country, dividing like 940-999

4. Law of war  Captivs  Neutrals

5. International criminal law

6. International private law

7. Arbitration

8. Diplomacy

9. Consular systems

342 Constitutional law and history

Divided by countries like 930-999. Under each, works may be divided: 1 Texts of constitution; 2 Conventions; 3 Systems; 4 Essays; 8 Polygrafia 9 History

For Administrativ law, see 350

343 Criminal law

1. Criminal trials

2. Punishments

Corporal  Deth penalty  Hard labor  Confinement

3-9 Of special countries

Under each country, works may be divided: 1 Penal codes; 2 Reports; 3 Criminal procedure; 4 Text books and manuals

344 Martial law

Private law

345 United States statutes and cases

Divide each of the sections .1-.5, using 1 U. S.; 2 Individual states arranged alphabetically; e.g. Statutes at large of U. S. 345.11; Acts and resolvs of Mass. 345.12

1. Session laws

2. Codes  Revised statutes

3. Law digests (of statutes)

4. Reports

Use .4 U. S. supreme court; .41 U. S. circuit and district courts; .415 Periodical collections of various states; e.g. Eastern Reporter, etc; .42 Reports of individual states

5. Digests of cases
British statutes and cases
Divided like 345. Includes all reports in English language except U. S. reports

Treatises American and English private law
Divided like 345. Includes all reports in English language except U. S. reports

Put law of special topics with the subject; e. g. Insurance law, 368. The divisions .1-.8 may be disregarded and all English law textbooks arranged in one alphabet by authors. An elaborate division, similar to Medicin, will be published after further revision

Persons Legal capacity
Realty
Chattels Movable
Contracts
Torts
Family law and inheritance
Commercial and maritime
Equity
Civil trials Procedure
Civil trials
Pleading
Forms
Evidence Testimony in general not limited to civil trials
Remedies
Justises of the peace Notaries Sheriff
Organization of courts
Jurisdictions
History of special courts

Canon law

Foren law
Divided like 349. and under each modern state divided like 345 with decimals .71 to .79 used for Treatises like 347. e. g. 349.4475 is French law of torts. 349.442 is French code. Roman law is divided:

Roman law

Sources: Ante-Justinian
" Justinian
History and criticism of sources
Institutes: Ancient Roman law
Pandects: Modern " "
Treatises on special topics
Divided like 347
Administration

Including Military science: .1 Theory; .2 Compenda; .3 Dictionaries; .4 Essays; .5 Periodicals; .6 Societies; .7 Education; .8 Polygraphy; .9 History.

A large number of the questions properly placed under Administration are clast with related topics elsewhere. Some of these are repeated here, both to show the scope of the subject 'Administration' and to provide for cross references by those specially interested. See also 342 Constitutional law and history.

351 Administration of central government

.1 Organization of civil service
   Officers. Method of election or appointment. Official functions and powers. Mutual relations

.2 Civil lists

.3 Examination

.4 Tenure of office Disciplin See 351.92 Power of removal

.5 Pensions

.6 Reform Spoils system vs offisholding class

.7 Subjects of administrative action
   See also 353 United States; 354 Foreign states
   Financial administration
   See 336 Finance, public property, taxation
   Budget Public accounts
   Internal affairs See also 323 Domestic relations
   Police measures
   
   Public safety and order See also 352.2 Police; 365 Prisons, etc.
   Press
   Reunion and association
   Weapons
   
   Vice and good manners
   
   Liquor regulation See 178 Temperance
   Public gaming See 174.6 Ethics
   Public begging See 339 Pauperism
   
   Prostitution See 176.5 Ethics
   
   Sanitary police
   See 352.4 Boards of health; 614 Public health, etc.
   
   Accidents See 614.8 Public health
   
   Buildings See 614.85
   
   Fires See 614.84
351.8 Promotion of public welfare

.81 Means of communication
   See 380 Commerce, communication
   Highways See 386; 352.7 Local government
   Railways See 385
   Waterways See 386; 387
   Ferries
   Bridges See 352.7 Local government
   Post offices See 383
   Telegraphs See 384

.82 Trade and industry
   .821 Weights and measures See 389 Commerce
   .822 Coinage and money See 332 Banks, money
   .823 Landed industry
      Agriculture See 630 Useful arts; 338.1 Production
      Forests See 634.9 Agriculture; 333.7 Land
      Mines See 622 Mining; 338.2 Production; 333.8 Land
   .824 Commercial and manufacturing industry
      See 380 Commerce; 338 Production
   .825 Institutions of credit See 332 Banks, credit
      Savings banks See 332.2
      Mutual benefit societies See 334 Cooperation
      Insurance See 368; 334.3 Cooperative insurance
      Monts de piété See 332.33

.83 Labor See 331 Capital, Labor, Wages

.84 Public charity
   See 339 Pauperism; 360 Associations and institutions

.85 Education and worship
   .851 Public education See 379 Education
   .852 Public libraries See 027.4 Library economy
   .853 Art museums See 708 Art
   .857 Worship See 322 Church and state

Military and naval See 355-359 Army and Navy

Justis See 340 Law

Foren affairs See 341 International law; 327 Political science

.9 Control over the administration

.91 Administrative control By superior officers
   .92 Disciplinary power
      Power of removal. See also 351.4 Tenure of offices
   .93 Supervision
      Power to annul or amend specific acts

.94 Judicial control
   .941 Ordinary courts See 347.5 Law of torts
   .945 Criminal courts See 343 Criminal law
   .95 Administrativ courts
   .96 Parliamentary control
   .97 Petitions and addresses
   .98 Investigations
   .99 Impeachment
Local government: county, town, city

See also 379 Public schools; 020 Libraries

**General questions of municipal administration**

- .001 Growth and importance of cities
- .002 Cities and state control
- .003 City as a juristic person, a corporation
  - See also 347.1 Law of corporations
- .004 City organization, municipal elections
- .005 Municipal civil servis

**Local administration of special countries and cities**

.03-.09 divided by countries like 930-999

**Local government in England**

Arrange matter relating to special cities alphabetically by name of city and subdivide the remaining works as follows:

1. County
2. Municipal boro
3. Parish
4. Union
5. Sanitary districts
6. School districts
7. Highway areas

**Local government in Germany**

Special cities like 352.042

1. Province: landtag, provincial committee, director
2. 
3. Circle
4. Circle diet
5. Circle committee
6. Landrat
7. Commune
8. Towns
9. Township

**Local government in France**

Special cities like 352.042

1. Department
2. General council
3. Departmental commission
4. Prefect
5. Arrondissement
6. Commune
7. Mayor
8. Municipal council

**Finances: city property and local taxation**

See also 336 Finance

1. Finances
2. Police
3. Fire department
4. Public helth: board of helth
5. Public bildings and works
6. Water and sewerage works
7. Streets Highways Bridges Parks
8. Licenses: hack, huckster, entertainment, etc.
9. Other topics
353 United States and state government

See also 342.73 Constitutional law and history
.01 Administrativ centralization
.02 Separation of powers
.03 President
.04 Departments
.05 Cabinet

.1 State department
.2 Treasury department
See also 336.73 Finance of U. S.
.3 Interior department
.4 Postoffice department
See also 383
.5 Judiciary department
.6 War department
See also 355 Army; military science
.7 Navy department
See also 359 Navy; naval science
.8 Other departments

.9 State government

Divided like 974-979

Apply same decimals for state and foreign governments. For departments not here specified use .8 and .9 and any of above numbers left blank; e.g. for a state having no navy, .7 is free for some local use. Judiciary dept. of D. C. 353.97535

353.9 includes history of regiments, unless covering a particular period of national history; e.g. the "history of the N. Y. 7th regiment in the civil war" is attracted to 973.74, but a general history of the same regiment is 353.97476

354 Organization of central government Foren states

See also 342 Constitutional law and history

Divided geographically by countries like 930–999. Under each country the U. S. divisions, 1 State, 2 Treasury, etc. may be used; e. g. State department of Great Britain, 354.421. Add also the following divisions:

.42 Administration of England
  Central government
  01 Administrativ centralization
  02 Separation of powers
  03 Monarch
  04 Privy council
  05 Cabinet

.43 Administration of Germany
  Central government
  01 Administrativ centralization
  02 Separation of powers
  03 Empire
  04 Bundesrat
  05 Emperor
  06 Ministry
  07 States Monarchs
  08 Landtag Ministers Council of state
  09 Free cities

.44 Administration of France
  Central government
  01 Administrativ centralization
  02 Separation of powers
  03 President
  04 Ministers
  05 Council of state
355 Military science

Military science in broad sense of land and sea forces; but limited to military science, tactics, etc. For War department of U. S. see 353.6; for history of regiments see, 353.9 and 4 under special wars in 973. See also 623 Military engineering

.01 Theory .02 Compends .03 Dictionaries .04 Essays .05 Periodical .06 Societies .07 Education .08 Polygrafy .09 History

Military science

Military in broad sense of land and sea forces; but limited to military science, tactics, etc. For War department of U. S. see 353.6; for history of regiments see, 353.9 and 4 under special wars in 973. See also 623 Military engineering

.01 Theory .02 Compends .03 Dictionaries .04 Essays .05 Periodical .06 Societies .07 Education .08 Polygrafy .09 History

Military life

Including honor, honors and insignia, and standards

Servis periods and retirement

Termination of servis Resulting status

Military life in peace and war

Military honor Disciplin Professional morality; rewards

Uniforms

System; distinguishing rank; style, color and esthetic considerations

See also 355.81 Clothing of troops

Colors and standards

Military celebrations

Commemorations, anniversaries, jubilees

Recruitment

Voluntary and compulsory enlistment; recruits from military schools. Obligations of citizens with respect to national defense

For relations of government to maintenance of public order see 351.74 Government police mesures

Organization of military forces

Army units and organization

For special arms see 356 Infantry, 357 Cavalry, 358 Artillery. For classification according to military obligation and field of servis see 355.35

Officers Military hierarchy

Command in general

General principles and rules of command, whether of large or small unit

Special servis

Outside the regular arm or grade

Armies General staff

Armies class according to military obligation and field of servis; e.g. European armies of first line, 2d line, colonial armies

For military units see 355.31

Tactics and strategy

Logistics and field servis

General tactics

Strategy

Siege warfare

For siege engineering see 623.2

National defense

Military geography

Divided like 930–999

Geographic works from military point of view and works on strategic conditions of theaters of operations

Wars, campaigns, battles, military exploits

Better class with wars to which they belong in 930–999
355.5 Servis
Garrison and field servis, mobilization; instruction of troops and subaltern grades; maneuvers

.52 Grand maneuvers Instruction camps

.6 Military administration
Class here only what concerns the workings of administrativ servises. For personnel and organization of these servises see 356.3

.7 Military establishments
Organization and servis
See also 359 Naval establishments
623.63 Military establishments (military engineering)
725.12 Architecture of military buildings

.8 Military equipment and supplies

.81 Clothing Camp outfit
.82 Small arms and ammunition
Administrativ questions: working and reserv supply; storage, issue, etc.
For mechanism and relativ efficiency of different kinds see 623.4

.83 Wagons Harness Transportation outfit
.84 Pioneering tools
.85 Other tools Instruments

356 Infantry

.1 Organization
Light infantry, mounted infantry, cyclist infantry

.12 Special colonial infantry

.13 Organizations eventually subject to mobilization

.14 Volunteer corps

.15 Irregular troops
'Corps francs' existing only during war

.16 Special infantry troops
Sharphshooters, etc.

.2 Staff and special servises

.3 Administrativ staff and servises
Personnel and organization

357 Cavalry Mounted servises

.1 Cavalry proper

.2 Remount and training servises

.3 Army train

358 Artillery, engineers and other technical servises
For ordnance, gunnery, etc. see 623 Military engineering

.1 Artillery

.2 Engineers

.3 Other technical servises

359 Naval science
Divided by .01-.09 like 355. See also 623.8 Naval architecture
Associations and institutions

This covers what is best known as "Charities and corrections," and genera
works on this topic go in 360. Under each section .9 is used as in 362.9, for
 grouping by location; e.g. Clubs of London are 367.9421

Charitable.  
See also 377.7 Charity schools  For humane societies see 179.2

Hospitals, asylums, and allied societies
For inebriate asylums, see 178.6 Temperance reformatories

.1 Sick and wounded  Incurables  Eye and ear infirm-
aries  Lying-in hospitals  Dispensaries

.2 Insane
See also 132.1 Insanity

.3 Idiotic
See also 132.2 Idiocy; 136.7622 Child study; 371.922 Education

.4 Blind  Def  Dum
See also 371.91 Education

.5 Paupers
See also 339 Pauperism; 331.6 Pauper labor

.6 Aged

.7 Children  Orphans  Foundlings
See also ethics, 179.2 Cruelty

.8 Other

.9 Special countries
Divided like 930–999; e.g. 362.942 Hospitals of England

Political
Tammany, Primrose leag, Ku Klux, etc.

Reformatory
Schools; discharged convicts; criminal classes

Prisons  Disciplin
See also 331.5 Convict labor

Secret societies
.1 Masons  .2 Knights of Pythias  .3 Odd Fellows  .4 Rosicrucians
See also 371.85 College secret societies

Social clubs

Insurance
See also 334.3 Cooperativ insurance

.1 Fire

.2 Marine

.3 Life

.31 Annuities
See also 336.35 Public annuities; 519.5 Probabilities

.4 Accident  Liability

.5 Animal and crop, agriculture
<table>
<thead>
<tr>
<th>Page</th>
<th>Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>368.6</td>
<td>Plate glass</td>
</tr>
<tr>
<td>.7</td>
<td>Boiler</td>
</tr>
<tr>
<td>.8</td>
<td>Credit and bonds Land titles</td>
</tr>
<tr>
<td>.9</td>
<td>Government control Commissioners</td>
</tr>
</tbody>
</table>

.94–99 divided geographically like 940–999; e.g., Insurance in New York (including state reports, etc.) is 368.9747

369 Other associations and institutions

<table>
<thead>
<tr>
<th>.1</th>
<th>Hereditary and patriotic societies (American)</th>
</tr>
</thead>
<tbody>
<tr>
<td>.11</td>
<td>General associations</td>
</tr>
<tr>
<td>.111</td>
<td>Regular army and navy union</td>
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<td>.112</td>
<td>Society of veterans of the regular army and navy</td>
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<td>.113</td>
<td>Military and naval order of the United States</td>
</tr>
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<td>.114</td>
<td>Medal of honor legion</td>
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<td>.115</td>
<td>Military order of foren wars of the United States</td>
</tr>
<tr>
<td>.116</td>
<td>Order of the old guard</td>
</tr>
<tr>
<td></td>
<td>Incorporated 31 Jan. 1896; organized 15 Oct. 1896</td>
</tr>
<tr>
<td>.117</td>
<td>Naval order of the United States</td>
</tr>
<tr>
<td>.118</td>
<td>Society of American wars</td>
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<td>.119</td>
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</tr>
<tr>
<td>.12</td>
<td>Colonial societies</td>
</tr>
<tr>
<td>.121</td>
<td>Society of colonial wars</td>
</tr>
<tr>
<td>.122</td>
<td>Society of colonial dames of America</td>
</tr>
<tr>
<td></td>
<td>A New York society with chapters in other states; known also merely as Colonial dames of America</td>
</tr>
<tr>
<td>.123</td>
<td>National society of colonial dames of America</td>
</tr>
<tr>
<td></td>
<td>A federation of separately incorporated societies in about 40 different states</td>
</tr>
<tr>
<td>.124</td>
<td>Society of the Mayflower descendants</td>
</tr>
<tr>
<td>.125</td>
<td>Order of the founders and patriots of America</td>
</tr>
<tr>
<td>.126</td>
<td>Colonial order of the acorn</td>
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<td>.127</td>
<td>“society of Pennsylvania</td>
</tr>
<tr>
<td>.128</td>
<td>“daughters of the 17th century</td>
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<td>.129</td>
<td></td>
</tr>
<tr>
<td>.13</td>
<td>Revolutionary societies</td>
</tr>
<tr>
<td>.131</td>
<td>Society of the Cincinnati</td>
</tr>
<tr>
<td>.132</td>
<td>Society of the daughters of the Cincinnati</td>
</tr>
<tr>
<td>.133</td>
<td>Sons of the American revolution</td>
</tr>
<tr>
<td>.134</td>
<td>Sons of the revolution</td>
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<td>.135</td>
<td>Daughters of the American revolution</td>
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<td>.136</td>
<td>Daughters of the revolution</td>
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<td>.137</td>
<td>Children of the American revolution</td>
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<td>.138</td>
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<tr>
<td>.139</td>
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</tr>
</tbody>
</table>
Society of the war of 1812
United States daughters of 1776–1812
Military society of the war of 1812
Society of the second war with Great Britain in the state of New York
Aztec club of 1847
National association of veterans of the Mexican war

Civil war societies, Union
G. A. R. (Grand army of the republic)
Military order of the Loyal legion
Society of loyal volunteers
Union veterans union
Union prisoners of war association
Society of the army and navy of the Gulf
National association of naval veterans

Woman's relief corps
Woman's veteran relief union
Society of the sons of veterans, U. S. army

Civil war associations, Confederate
Confederate survivors association
Confederate veterans association
United sons of confederate veterans
" confederate veterans
Daughters of the confederacy

Spanish war veterans
Society of the army of Santiago de Cuba
Naval and military order of the Spanish American war

Young peoples societies
For religious societies see 267.6
Mixt: boys and girls
Boys
See also 136.77 The 'gang'
Boy scouts
Girls
Campfire girls
Theory of education

Meaning

Aim

Including philosophy of education, science of education and general methodology. Not limited to any curriculum, school or class of schools. For specific methods, pedagogics, see 371.

History of educational theory

Psychology applied to education

Imitation, suggestion, play, etc. Divided like 150 Psychology; e.g. function of memory in education 370.154

Dictionaries Cyclopedias

Essays Addresses

Periodicals

General. For periodicals limited to a special topic see that topic; e.g. kindergarten magazines 372.205. See also 371.805, 378.05

Educational almanacs and calendars for teachers

Organizations Conventions

Associations Clubs

Permanent societies, their meetings and reports. Divided like 940–999

Congress Conventions

Occasional congresses and conferences: international or interstate

Study of education Institutions and organizations for training teachers:

Means and methods, including normal schools, institutes, etc. For need of training, kind and amount, see 371.12

Teachers meetings

Class meetings of teachers of a single institution (faculty meetings) with the institution; see table for school and college publications under 378.4–9

Plan and organization

Frequency, time, place, control, cost, etc.

Programs, courses of study

In special places

Divided geographically like 940–999

Teachers institutes

Divide like 370.71 above

Normal schools

Institutions primarily for training teachers; e.g. state normal schools, Teachers college of Columbia university; often with attacht 'model' or practis schools, in which normal students teach under supervision of their instructors. For training classes attacht to regular schools see 370.75

Plan and organization Aims and functions Scope

Length and time of terms. Support: public, private

Courses, programs Credentials

Adjuncts: practis or model schools

Special countries and schools

Divided geographically like 940–999

Education museums

Including exhibits at international expositions, state and county fairs, etc.

Training classes

Class here teachers classes attacht to regular schools. For normal schools see 370.73
370.8 Polygrafy

.81 Collected writings of a single author
   If not limited to a definite topic; e.g. Horace Mann, Henry Barnard, etc.

.82 Collected writings of several authors

.9 History, description
   General works covering both ancient and modern history, and including
   history of institutions, practice and description of conditions. See also
   136.791 The Child among Uncivilized and Semicivilized Peoples

.92 Educational biography
   Preferably class in 923.7

.93-9 History of education in special countries
   Subdivided like 930-999
   Medieval Europe
   Modern Europe

371 Teachers Methods Disciplin

Practical methods. See 370.1 for theories of education. The following
divisions concern instruction of all grades

.1 Teachers Teaching personnel Professors,
masters, instructors
   See also 370.7 Training of teachers

.101 Duties and responsibilities Mission

.102 Personal influence

.103 Relations to parents
   Mutual duties of parents and teachers

.104 Relations to community Public status

.105 Social status

.11 Qualifications Personality
   See also 371.18

.12 Need of training; kind and amount
   Discussion of special preparation of teachers and professors for their
   vocation. For teachers training schools and classes, see 370.7

.13 Examination Certificates Certified teachers

Licenses

.14 Appointment Organization of teaching force

.142 Appointment Contract Discharge Tenure

.143 Appointing body
   Board, committee, principal

.145 Agencies
   Bureaus and associations for supplying teachers

.15 Professional status
   Permanent profession vs steppingstone theory
371.16 Salary and promotion Compensation Amount of servis

.161 Salary
.162 Fees
.163 Allowance for expenses
.164 Residence Living expenses
.165 Promotion Advance in rank
For salary promotion see 371.161
.166 Hours Daily or weekly servis
.167 Vacation Yearly servis
.168 Sabbatic year

.17 Pensions and insurance for teachers
Carnegie pension fund
.18 Women as teachers
Feminization of teaching force
.19 Other topics

371.2 School organization School records

371.21 Admission Enrolment Matriculation
For college entrance requirements see 371.214. Standards of individual schools are class with the school
.211 Grammar or intermediate school admission standards
Including standards of German b"urserschulen
.213 High school standards
Including standards of German gymnasia, French coll"ges and lyc"es
.214 College standards
Undergraduate and nonprofessional graduate courses in (American) colleges and universities
.215 Professional and technical school standards
.22 Tuition fees Free tuition Scholarships
See also 371.162 Professors fees; 379.13 Tuition fees of nonresiden pupils in public schools; 378.34 Scholarships
.23 Terms Vacations Holidays Breaking up
See also Hygiene of vacations and holidays 613.76, 613.77; Closing for diseases, 371.712
.234 Terms in 2 or more places
For floating schools see 371.392
.24 Hours Recess
For exercise see 371.73 Care of body
.25 Classes Grades
For grading of schools, see 379.17. See also 371.394 Individual instruction
.253 Length of school courses; e.g. 6 year course
See also 378.241 Length of college course
.26 Marking system
Examinations: oral, written Cramming
See also 428.9 Language
For competitive examinations see 371.53

Promotions Degrading
Other topics

Graduation Diplomas
May be subdivided like 371.28 See also 378.2 College degrees

Methods of instruction
See also special subjects; e.g. Science study, 507

Rote or concert teaching
Text books Recitations
Use of textbooks. Textbooks themselves are claust with the subjects treated

Lectures Oral instruction
Developing or inductive method
Art of questioning Catechetic method
Topical method

Correlation

Special days
Historical days: Discovery day, Flag day, Memorial day, Constitution day, Independence day. Birthdays: authors and other noted persons; Washington's birthday. Nature: Arbor day, Bird day. Other: Thanksgiving, Christmas, Easter, etc

Seminary method
Laboratory work
Other

Floating schools or colleges
Combining travel and shipboard instruction
Trips, excursions, visits

Individual instruction Batavia system
By regular teacher or tutor, at home or at school See also 373.1
Private instruction

Small classes
See also 371.47 Quincy system

Systems of education
For Fröbel's system see 372.2 Kindergarten

Bell and Lancaster, or monitorial Mutual system
Fellenberg or manual training; vocational schools, industrial education
For equipment and cost of manual training schools or departments see 371.623 Machine shops, 371.676 Apparatus, etc. For subjects of study see 375.01—.9 For individual schools see 607 or 378.99

Educational value
In elementary schools
In secondary schools
In special schools

History and development
Military organization Military instruction

Pestalozzian
Class here all Pestalozzi's educational writings

Jacotot

Quincy system

Government Disciplin Authority

Rules

Attendance Truancy Tardiness Absences

Rewards Prizes Favors Approbation

Interschool literary contests

Competitive examinations. For interschool and intercollegiate debates see 374.245. For interschool athletics see 371.75

Punishment Disciplinary penalties

Limits of school jurisdiction. Disciplin of consequences

Corporal punishment

Other punishments

Confinement; tasks; expulsion; suspension; discharge

Personnel responsible for disciplin Monitors

Moral government Alcott system

Student self government College systems

School city Ray system

School premises and equipment

Grounds Site

School playgrounds

Bildings

Requirements peculiar to schools. See also 727 Architecture of educational institutions. The following subdivisions apply to both special rooms and separate buildings

Study, lecture and assembly rooms

Library and museums

Art, science, etc. See also 022 Library buildings; 371.64 Function of school libraries; 021.3 Relation of libraries and schools; 027.7-8 Reports of college and school libraries

Laboratories Observatory Machine shop

See also 542.1 Chemical laboratories; 522.1 Observatories 371.66 Scientific apparatus and supplies

Gymnasium

See also 725.85

Other special rooms or bildings

Dormitories, clubs, infirmaries, Y.M.C.A. and Y.W.C.A.

Sanitation Lavatories

Lighting

Heating and ventilation

Accessories

Elevators, lifts, telephones, etc.
Furnishing and decoration

- **Furniture**
  - Blackboards, desks, chairs, benches. For globes and maps see 371.66

- **Musical instruments**

- **Floors: bare, covered**
  - See also 721.6 Architectural construction;
  - 022.96 Library buildings
  - 645 House decoration

- **Walls: tints, covering**

- **Decoration**
  - See also 729 Architectural decoration

- **Pictures, frescoes**

- **Sculpture**

- **Plants**

- **Other decoration**

- **Libraries**
  - Character and functions. For relation to public library see 021.3; to relation to other school rooms and buildings see 371.622. See also 027.8 School libraries; 027.7 College libraries
  - **Relations of library to faculty and students**
  - **School traveling libraries**
  - **School reading lists**
    - See also 028.5 Reading of young

- **Elementary school libraries**

- **Secondary school libraries**

- **College and university libraries**
  - Departmental and seminar libraries

- **Professional and technical school libraries**
  - In 371.645-8 may be clast matter pertaining to desirability and scope of such libraries, tho it is better in 027.7-8 with reports and other matter pertaining to their management

- **Museums: character and functions**
  - Divided if wish like 010-999: e.g. 371.655 Science museums; 371.657 Art museums Limited to character and functions of museums attacht to teaching institutions; see also 708 Art museums and form division 074 under special subjects

- **Scientific apparatus, laboratory equipment and supplies**
  - Divided like 500; e.g. 371.662 Astronomic observatory

- **Other apparatus, equipment and supplies**
  - Divided if wish like 010-999; e.g. 371.6791 Globes, maps, etc.

**School hygiene**

- **Health of students**
  - **Overstudy**
  - **Fatigue**

- **Sanitary conditions and inspection**
  - Board of health. For sanitary engineer's side see 371.626

- **Medical inspection**
  - For personal conditions affecting health and intellectual progress; e.g. cleanliness, contagious diseases, nervous disorders, defective eyes, ears or teeth. Closing schools on account of epidemic or contagious diseases
Unhygienic postures

See also 371.632 Furniture (ill designd desks and seats)

School meals

Discussion. Administrativ problems: space, cost, whether wholly or partly free, etc. For management of lunch room, suitable food, etc. see 642.58

Open air schools

Care of eyes Effect of study

Care of body Gymnastics Calisthenics

For systems of gymnastics or physical training, and books of exercises see 613.71

Educational influence of physical training

Gymnastics Calisthenics

In elementary schools

In secondary schools

In colleges

In special schools

In girls' schools

Military drill

For military organization of school see 371.43

Fencing

Swimming Bathing

Riding

Walking School promenades

Recreations Games, etc. Athletics Diversions

See also 371.61 School playgrounds; 613.74 Hygiene of play; 796 Outdoor sports

Championship games Boat races Interschool athletics

See also 175.7 Ethics; 613.73 Hygiene; 796 Outdoor sports

Other special topics

Student life and customs

Various aspects of student life and student activities outside regular courses of study

See also 784.6 College songs; 378.29 College costumes

Student periodicals

Discussion here. Periodicals themseivs preferably with their schools

Student honor

Cribbing Cheating Keys Ponies Copying

Fagging and hazing Bullying German student duels

Student organizations German corps

Ancient student societies

Literary societies

Secret societies

Class all college chapters here, thus bringing the fraternity together, with reference from the college. See also 366 Secret societies

Society premises Society houses Halls Temples, etc
Education of special classes

General questions; kind and methods of education for these classes. For institutions see 362, 364. For study of abnormal children see 136.76

Physically defectiv

See also 362.4 Asylums for blind and def

Blind

See also 655.38 Printing for the blind

Def

Finger alphabet See also 378 for degreeconfering colleges

Mentally defectiv

Divided like 132. See also 362.3 Idiot asylums, 920.8 Lives of idiots cranks, etc.

Morally defectiv

Delinquents

See also 364 Reformatories. Criminal classes

Other abnormal classes

See also 136.764-9 in Childstudy

Exceptionals

Precocity

Dependents

See also 362 Hospitals, asylums and allied societies

Special ranks

See also 375.002 Courses for different social classes

Princes

Nobles

Special types

See also 136.77 Boys, the 'gang'

Freedmen

Negroes

See also 378.75-.76 for degreeconfering colleges

Indians

Orientals

Special nationalities

Special schools for foreners; e. g. Germans, Hungarians, Russians, Japanese in United States.

Coeducation of races
Elementary education

Primary schools. Dame schools. Infant schools (under 7 years)
See also Day nurseries 362.7; Minding schools 362.5 or 362.7; Crèches 362.7

Pedagogics and didactics of primary schools

May be used like 136.7 by those who insist on having childstudy with education

Kindergarten
See also 371.44 Pestalozzian, for theory and early history. Put Fröbel's work and development of his system here

Theory Principles

Essays
Periodicals
Societies
Training of kindergartners

History Divided if wish like 940-999

Methods
Gifts and occupations
Gifts
Occupations
Stories
Songs and games
Influence of kindergarten
Relation to other schools

Observing powers Object teaching Science

Nature study
Divided like 500-599; e.g. Birds 372.35982

Gardening

Reading Alfabet Fonics and word methods
Spelling
See also 428.6 Elementary readers
Simultaneous teaching of reading, writing and spelling

Elementary writing and manual work
See also 741 Freehand drawing

Writing
First efforts, imitating printed roman letters

Drawing Design
See also 741 Drawing

Clay modeling
Sewing, etc
Elementary basketry, weaving and braiding
372.6 Elementary grammar Language lessons
See also 400 Philology, subdivision 8 under each language

.61 Mother tongue

.65 Second language

.7 Elementary arithmetic
Including mental arithmetic. See also 511. For Abacus see 511.2

.8 Other studies
Divided if wished like 010–999; e.g. 372.82 Religion

.89 Elementary geography
See also 910.7. Elementary textbooks may be put with their subjects, but a primer of geography is more useful to a student of elementary schools and methods than to one interested in Geography, Description, and Travel. Text books, except primary, go with their subjects

.9 Special countries and schools: history, reports, etc.
Divided like 940–999; e.g. 372.942 English elementary schools. Put here elementary schools whether public, endowd or private

373 Secondary Academic Preparatory
Class here discussions of general theories, methods, etc. pertaining specifically to secondary education, regardless of source of support. Class here also all private or endowd secondary schools for boys or both sexes; but class all public (taxsupported) schools in 379.4–9, all primary schools (regardless of support) in 372.9, all schools and colleges solely for women in 376, and all colleges for men or coeducation in 378. Class methods and questions peculiar to monastic, diocesan and parochial schools in 377, but class the schools themselves in 372, 373, 378, etc. according to their grades
For specific topics see 371

.1 Private instruction: tutor, governess, coach

.11 Relativ advantages of instruction at home and in school
See also 371.394 Individual instruction

.2 Day schools Boarding schools

.4–9 Special countries and schools: history, reports, etc
Divide like 940–999, as. 373.42 Higher English schools, Eton, Harrow, etc
### 374 Home education  Self-education and culture

Cultural, personal aspect of education.

Subdivided by 0 with form numbers if wished; e.g. 374.05 magazines pertaining to this work. 374.06 Conferences, conventions, institutes, general meetings.

The term Home education covers the broad field of adult self education through private reading, study clubs and reading circles, summer, vacation, evening and correspondence schools, lecture courses and other forms of extension teaching and other agencies for extending more widely opportunities and facilities for education outside the usual teaching institutions.

For relations of this work to libraries, the natural centers for such activities see 021.2 See also 378.13 University extension

### With or without personal guidance

#### .1 Solitary study  Private reading  Conversation

Advantages to be derived from reading. Study alone with or without aid of reading lists, syllabuses, etc.

Reading lists themselves, syllabuses and other aids to study belong with other bibliographies (016) or with compendia under their subjects. They may however, if preferred, be kept together under 374.1, divided like the classification; e.g. syllabus on English history 374.194; on library economy 374.102

See 028, for preparation of guides, policy, methods, etc.

#### .2 Associated study  Clubs

##### .21 Study clubs

Class here 'travel clubs' which study about places without traveling to see them. See also 374.25

##### .22 Reading circles  Book and periodical clubs

##### .23 Lyceums  Literary clubs

##### .24 Debating societies  Oratorical clubs

##### .245 Interschool and intercollegiate debates

For interschool literary contests see 371.535

##### .25 Traveling clubs  Educational value of travel

Clubs which travel for study. See also 374.21

#### .3 With personal guidance

Either alone or in groups, clubs or classes

#### .4 Correspondence teaching  Manuscript aids

- Including methods of correspondence teaching

##### .43 Societies for encouraging home study

##### .44-.49 Correspondence schools

General schools divided like 940-999. Special schools are better class with their subject, with only a reference here: e.g. correspondence schools of agriculture 630.7

#### .5 Lectures

Single lectures, or series of lectures on different subjects; courses on the same subject unsupported by any other of the 7 factors of a complete extension course: i.e.

1 Lectures  3 Class  5 Guided reading  7 Examination

2 Syllabus  4 Papers  6 Club
### 374.6 Extension courses Lecture study

- **.62 Lecture study**
  3 or more lectures on the same subject, with 2 or more of the 7 factors

- **.64 Extension courses**
  5 or more lectures on the same subject with 4 or more of the 7 factors

### .8 Continuation schools

Summer, winter, vacation, night (adult) etc. German auxiliary schools
Divided like 940-999 For evening or night schools see also 379.19

### .9 Central organizations, state departments, institutes

N.Y. state home education dept, Brooklyn institute, Cooper institute, Chautauqua, etc

### 375 Curriculum

- **.001 Order of studies**
- **.002 Single course**
- **.003 Parallel courses**
- **.004 Optional courses Electiv system**
- **.005 Balanced courses Group system**

#### Special topics

- **.006 Overcrowding curriculum**
- **.007 Courses for different classes of society**
  1 For bredwinning vs culture
  2 Failure of course to develop efficiency
- **.008 Courses for schools of special kinds**
  Courses in schools of Roman catholic order of St Ann; outline of study for common schools; courses in French lyceés, etc.
  See also special schools under their respective subjects

- **.009 Courses for institutions in special countries**
  Divided like 900. See also 379.4-9

### .91-.9 Subjects of study

Divided like the classification 010-999; e.g. 375.5 Place of science in the curriculum, 375.84 French literature in the curriculum, 375.88 Classics in the curriculum

Methods of teaching individual subjects, also textbooks, may be kept with educational literature by adding letters to 375 as follows: A general, B educational value of specific subjects, C place in curriculum, D methods of teaching specific subjects, E textbooks; e.g. 375.32 B Educational value of political science 375.32 C Place of political science in the curriculum

### 376 Education of women

See also 396.4

- **.1 Physical capacity of women**
- **.2 Mental capacity of women**
  See also 136.1 Mental characteristics as influenced by sex

- **.3 Home or domestic instruction**
  By tutor or governess. See also 374

- **.4 Fashionable education ’Finishing’ schools**
  Discussion. For prospectuses, catalogs, etc, see 376.9

- **.5 Convent education**
  Discussion. For prospectuses, catalogs, etc, see 376.9
Secondary: preparatory schools for girls
All between primary and college. Discussion. For girls highschools see 379.4-9; for private preparatory schools see 376.9
Influence of college education on women
Associations of college women
Association of collegiate alumnae. Alumnae of a single college with that college

Coeducation Segregation Separation
Discussion of collegiate education of women in separate institutions or those for both sexes, whether in the same or separate classes. See 378 for coeducational institutions, 376.8 for separately organized colleges, either affiliated like Barnard and Radcliffe or independent like Vassar, Smith, etc
Class here by attraction general discussion of coeducation of sexes in college and secondary school

Colleges for women
Degree-conferring colleges go here. Arrange material of each college by "Table for school and college publications" following 378.99. All other schools for women go in 376.9

Special countries and schools: history, reports, etc.
Subdivided like 940-999: e.g. 376.943 Education of women in Germany

Religious, ethical and secular education
Relations of religious to secular education. For inculcation as well as actual teaching of definite ethical or religious doctrines see 375; e.g. instruction in duties of citizenship, patriotism 375.172. Course in Christian evidences 375.239
Class catalogs, history, etc. of a denominational school regardless of religious affiliation, but class here books dealing in general with schools of a certain denomination or order; e.g. educational system of the Jesuits 377.35

Religious instruction Bible in public schools
Including sectarian instruction or influence in public schools. Public school teachers in religious garb. Conscience clause of English elementary school code

Ethical education
See also 170.7 Study of ethics; 375.17 Place of ethics in curriculum

Monastic or abbey schools
Ecoles congréganistes. Divide like 271. See also 271 Monastic orders. 376.5 Convent education of girls

Diocesan schools Cathedral schools
Domschulen, stiftschulen

Parochial schools
See also 257 Parochial schools

Missionary schools
See also 266 Missions

Charity schools
Mainly for elementary education. See also 361 Charitable institutions

Church and education
Subdivided like 280; e.g. 377.82 Relation of Roman Catholic church to education. Discussion of denominational schools or educational associations e.g. 377.82 Association of Catholic colleges of United States
See also 261.5 Church and intellectual development

Nonchristian religions and education
Subdivided like 290; e.g. 377.97 Relation of Mohammedanism to education
Colleges and universities

With power to confer degrees. For men only and for both sexes. For women's colleges see 376.8.

.01 Definition of college and university
Aim
Advantages and influence of college training; e.g. on business capacity

.014 College terminology, 'slang'
Including also student slang. See also 427,.437, etc.

.05 Academic periodicals
Periodicals devoted to college and university interests. Those issued by colleges, schools, etc., are scattered either by subject or under college numbers

.06 General college associations
Association of New England colleges See also 370.6

.068 Associated alumni University clubs
For alumni associations of any one college, see T under college number

.069 Duties of college men as a body

.1 Organization Government Location Scope, field
Classes, colleges, graduate departments, etc.

.11 Administrativ officers

.113 Disciplinary officers, judicial corps, university court
President, deans, etc.

.12 Teaching staff Faculty
Exchange of professors. For qualifications see 371.11

.121 Freedom of teaching
See also political science, 323.444

.13 University extension
Conducted by universities. See also 374

.14 College year Summer or vacation instruction
All the year session

.15 Location and size Large vs small

.153 City vs country colleges

.17

.2 Academic degrees and costume College colors
See also 614.31 Medical degrees

Degrees

.21 Degree conferring body and powers
College, university or state. See also 614.21 State regulation of medical education

.22 Graded degrees
Pass, honor, cum laude, magna cum laude, etc.

.23 Degrees in course
Advanced degrees conferred at specified periods on graduates in good standing, without evidence of advanced attainments
378.24 Degrees for completion of courses

With or without examination

.241 Time and residence required Length of college course

.242 Subjects allowable for liberal degree

Whether technical courses should be credited toward liberal degrees

.243 Differentiation of degrees: B.A. B.S. B.L. etc

.244 Degrees on examination

With or without residence

.25 Honorary degrees

.26 Degrees by purchase or forgery

Insignia

.27 Seal Coat of arms Motto

.28 Colors: institution and class College flags

.29 Academic gowns and hoods

.3 Endowment of research Fellowships Scholarships Student aid

.31 Endowment of research


.32 Fellowships

.34 Scholarships

Rhodes scholarships Traveling scholarships

.36 Student aid societies Student loan funds

.37 College employment bureaus Faculty committees

Other organizations for securing work for students

.38 Student expenses Extravagance Economy

.4-.98 Special countries and colleges: History, reports, etc

For women's colleges, see 376.8

Subdivide like 940-999, e.g. 378.42 English universities; 378.741 Maine colleges

The various colleges of any section may be given each a number or be arranged alphabetically. Under each college arrange publications by the following table, placing these letters after the letter (or letter and figures used to designate the college; e.g. a history of Harvard college would be marked 378.744 H E, and a second history would be numbered 378.744 H E1.

The practical convenience of this plan outweighs the objection that it introduces classification into the book numbers

If preferred, colleges and universities may be arranged alphabetically under continent number, instead of being class first by country or state; e.g. European universities under 378.4 in alphabetic order regardless of country. United States colleges and universities all in one alphabet under 378.73

.99 Professional, technical and other special schools

Professional education

Best kept with subject, but may be compactly grouped here. Divided like the classification: e.g. 378.992 Theologic schools, 378.9934 Law schools, 378.9961 Medical schools
TABLE FOR SCHOOL AND COLLEGE PUBLICATIONS

| A | Charter and statutes                             |
| B | Trustees, Regents, Resolutions, reports, etc    |
| C | Administration, President, chancellor, Reports, etc |
| D | Finances, Treasurer's reports                    |
| E | History, Foundation, growth, etc                |
| F | Biography, Necrology                            |
| G | General catalogs, Triennials, etc                |
| H | Annual catalogs, Attendance, registers, etc      |
| I | Handbooks, Circulars of information              |
| J | Bulletins, Official periodicals                  |
| K | Commencements, inaugurals, etc, Baccalaureate and other addresses |
| L | Programs, Tickets, Memorabilia                   |
| M | Faculty (as a body), Publications, Regulations, Certificates for admission |
| N | Lectures, Class manuals, Examination questions   |
| O | Student theses, Orations, essays, etc           |
| P | Student catalogs, Society annuals, etc           |
| Q | Student periodicals                              |
| R | Student societies, including periodicals         |
| S | Student miscellany, Songs, Class day, etc       |
| T | Alumni, Societies, committees, etc              |
| U | Classes, Histories, records, etc                |
| V | Pictures, Class albums                          |
| W | Bildings and grounds, Descriptions, maps, etc   |
| Z | Schools: divinity, law, medical, etc             |

379 Public schools  Relation of state to education

.1 Public school system

.11 School funds

.12 National and state aid to education
   See also 336.14 Finance

.121 Public aid to private and sectarian schools

.123 Land grants

.124 Subsidies

.13 Local support
   Taxation, Bonds, Endowment, Nonresident tuition
   See also 336.28 Taxation
379.14 School laws and regulations School age
Divided like 940–999.
.15 School supervision and control: national, state
and local Centralization
.151 National
.152 State: department, inspectors, etc.
.153 Local: superintendent, school committee, board
Supplies, free textbooks, etc. For school meals see 371.716
.154 Individual: parents and others
.156 State textbooks
.16 Public colleges and universities: national, state
and local
Only discussion here; for individual colleges see 378.4–9
.17 Secondary schools
Discussion. For individual schools see 379.4–9
.171 Highschools Academies
6 year highschools
.172 Grammar schools
.173 Rural schools
.175 Central plan Conveying pupils
.18 Primary schools Kindergartens
Questions of public maintenance. For individual schools see 377.9
.19 Evening schools
See also 374.8
.2 Illiteracy Instruction of illiterates
.21 Illiteracy and crime Education and crime
Criminal illiterates
.22 Illiteracy and pauperism Indigent illiterates
See also 339 Pauperism; 362.5 Pauper asylums
.23 Compulsory education
See also 371.52 Truancy
.24
.3 Public vs private and endowd schools
.4–9 Special countries, sections, cities, etc
Subdivided like 940–999: e.g. 379.73 Reports of U.S. commissioner of
education; 379.744 Education in Massachusetts; 379.7471 in New
York city. Keep state departments separate from city and other local
systems by numbering state reports, A1–A8, using A9 followed by
author’s initial (lower case) for history of schools of any state; e.g.
Fitch’s New York public schools 379.747 Agf
The technical side of these questions goes mostly in 650 Useful arts. Here belong discussions of social and political relations; e.g. government control of railroads, telegrafs, etc.

381 Domestic trade
382 Foren trade Consular reports
383 Postoffis
See also 353.4 U. S. administration
384 Telegraf Cable Telefone
See also 621.38 and 654
385 Railroad and express
See also 656 Railroading
386 Canal and highway transportation
See also useful arts, 656 Transportation
387 River and ocean transportation
See also useful arts, 656 Transportation
388 City transit
See also engineering 625
389 Weights and mesures Metrology
See also 658 Business manuals
390 Customs Costumes Popular life

These heads are for discussions by topic. Customs, etc. of any special country go in 913-919. Books on a special topic in a special country go here, as the grouping by topics is the more important; e.g. Marriage in Japan is 393.5, but Japanese customs, 915.2.

For customs of primitiv man, see §71

391 Costume and care of person

See also 646 Clothing; 613.4 Hygiene

.1 Costumes of men

.2 " " women

.3 " " children

.4 Extremities: hats, gloves, sandals, shoes, stockings, etc.

.5 Hair dressing Barbers

See also 645.7 Toilet

.6 Care of person Bathing Toilet

.7 Ornaments and jewelry

.8

392 Birth, home, and sex customs

.1 Birth customs: christening, circumcision

.2 Sacrifice and exposure

See also ethics, 173.4 Infanticide

.3 Family and home relations

.4 Betrothal

.5 Marriage

.6 Sex relations Concubinage

393 Treatment of the ded

See also 614.6 Public helth

.1 Earth burial

See also 719 Cemeteries

.2 Cremation

.3 Embalming, mummies

.4 Exposure

.9 Special funeral customs: wake, suttee

394 Public and social customs

.1 Eating, banquets

.2 Shows and diversions

.3 Games Dances, etc.

.4 Ceremonies

.5 Processions

.6 Fairs

.7 Chivalry Tournaments

.8 Dueling Suicide

See also 179.7 Ethics; law, 340.3 Trial by ordeal
Etiquet

Codes of social procedure and behavior. For social ethics see 177

Woman's position and treatment

For costumes, see 391.2; biography, 920.7
If a special library about women is wished, 396 is the best place for it. Suffrage, education, and employment can then be put here, with references from 324.3, 376, 331.4, etc. But it would be unwise to bring everything about women here, e.g. to remove 618. Diseases of women, from the rest of medicine. Books on women in general go in 396

.1 Emancipation

.2 Legal status, property, rights, etc.

.3 Political status

See 324.3, Suffrage; 329.83, Woman suffrage party

.4 Education

See also 376, Education of women

.5 Employment

See 331.4, Labor of women; 371.18, Teachers

Divided like the general classification; e.g. woman as scientist, 396.55; woman's exchange, 396.56; woman as painter, 396.57; woman as author, 396.58, etc.

.6 Woman in home

.7 Delineation of woman in art

.8 Delineation of woman in literature

.9 Woman in history, politics, war

Amazons

Gypsies Nomads Outcast races

People without nationalities who do not coalesce with the ruling people among whom they live. This includes Gipsy language, which has no place in the linguistic groups of 400, as the Gipsy people have no place in the geographic divisions of history

Folklore Proverbs, etc.

See also 291-3 Mythology

This section is for material needed in studying Folklore. Mere stories for children, unless having a value to students of folklore, go in 823, or in J, if there is a Juvenil collection

.1 Primitiv traditions

.2 Legends, tales, traditions

.3 Folklore, traditional beliefs and customs, popular superstitions

.4 Fairies, elvs, ogers, monsters, etc.

Bogies, gnomes, dragons, vampires, werewolves

.5 Chapbooks

.6 Riddles

.7 Dream books

.8 Song books

Including only popular collections, hardly ranking with Poetry or Music, but useful in the study of Folklore, etc.

.9 Proverbs

Customs of war

Weapons War dances Treatment of captives Scalping Mutilation Burning Cannibalism See also 623.4 Firearms
Philology

400 Philology in general

In philology the general works put under 400-419 deal almost entirely with the Indo-European languages. They are put here because they cover most of the divisions of this class, and in practice are most convenient here. Under 439, 479 and 489 are placed books limited to the Teutonic, Romance, or Hellenic groups, and under 401 are placed only such general works as are specifically limited to the Indo-European group.

401 Philosophy Origin of language
402 Compends, outlines
403 Dictionaries, cyclopedias
404 Essays, lectures, addresses
405 Periodicals
406 Societies, transactions, etc.
407 Education, teaching languages
408 Polygrahy Collections

.9 Universal language
.91 Volapük

409 History of language

410 Comparativ

410-419 includes comparativ works in general and also those on the Indo-European group in general, but general and comparativ works on Teutonic group are 439; on Romance group 479; on Hellenic group 489. Everything about an individual language is put with that language.

411 Orthografy Orthoepy Alfabets
412 Etymology, derivation
413 Dictionaries, lexicografy
414 Phonology Visible speech
415 Grammar, morfology, syntax
416 Prosody
417 Inscriptions Paleografy

See 421.7, 471.7, 481.7, etc. Rare early mss are put in 491

418 Texts
419 Hieroglyfics

See also 493.1

.1 Sign language

For def mute alfabets, see 371.912
420 English philology

.1 Philosophy .2 Compend .4 Essays .5 Periodicals .6 Societies .7 Study and teaching .8 Collective works .9 History of the language

421 Orthography

See also this hed treated in general grammars placed under 425

.1 Alphabet

For def mute alphabets, see 371.912

.2 Vowels Diphthongs Aspirates

.3 Consonants

.4 Phonetic spelling Spelling reform

.5 Orthoepy

.6 Accent

.7 Paleography Inscriptions

.8 Abbreviations

For stenographic and other uncommon contractions and abbreviations, see 653 Shorthand

.9 Punctuation

422 Etymology Derivation

422 is limited to derivation. For inflection, also called etymology, see 425.1

.1 Origin and laws of language

.2 Prefixes Suffixes

.3 Reduplication

.4 Foren elements

.5 Noun forms: case, number, diminutives

.6 Adjectival forms Degrees of comparison

.7 Pronominal forms: personal, possessive, relative, etc.

.8 Verbal forms: moods, tense, voice, etc.

.9 Particles: adverbs, prepositions, etc.

423 Dictionaries Idioms

.1 Idioms .2 English .3 German, etc. Put a dictionary of two languages with the less known language. Under 423 put only English-English dictionaries. Put an English-French dictionary with French, 443.2; a French-Latin dictionary with Latin, 473.4. If in several languages, put with 413, or with least known. Put French-French dictionaries 443, not 443.4, so that the standard home dictionaries shall come first in each language. This plan brings together under each of the less known, all the dictionaries for translating either into or from that language. Some prefer to put each dictionary under the first language; i.e. that by which it is alphabetized. This gives under each language, regardless of its familiarity, all dictionaries for translating from it, but none for translating into it. These must be sought under the language from which the translation is to be made. For a cosmopolitan library this plan is simplest and best; but in an English library, the first plan, with only English dictionaries in 423, and both in and out dictionaries together under little known tongues is more convenient. References in either case show what may be found in the other place.

424 Synonyms Homonyms
Grammar

425 includes general works, covering also orthography and prosody

1. Morphology
2. Syntaxis
3. Arrangement of words and clauses
4. Particular sentences: conditional, hypothetic, etc.
5. Nouns
6. Adjectives
7. Pronouns
8. Verbs
9. Particles

Prosody

See also the heading Prosody, in general grammars 425

1. Quantity and accent
2. Versification
3. Feet
4. Figures of prosody
5. Meters
6. Rimes
7. Strophe and antistrophe
8. Textbooks for writing verse

Dialects

Early forms of language Slang

Subdivided by geographic divisions like 942. The Yorkshire dialect is 427.74; Gloucestershire dialect 427.41. The dialects of other languages take the geographic subdivisions of their countries. Dialects not provided for in these heads are placed with the last; e.g. American and Scotch with 427.9. The division by time is made with a 5th figure after 0; the earliest form of the language is marked .01; .09 is used for modern slang, e.g. 427.01 Old English

School books

Texts for learning the language

Including only books for learning the language, with grammatical or philological notes, etc. For other works see the literature of the language, 820

1. Spelling books
2. First lessons
3. Errors of speech
4. Elementary readers
5. Texts of individual authors
6. Examination papers

Anglo-Saxon

The above subdivisions of English are used for all other languages and for 410, Comparativ philology
<table>
<thead>
<tr>
<th>430 German</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>437.01 Old High German;</td>
<td>437.02 Middle High German</td>
</tr>
<tr>
<td>439 Minor Teutonic</td>
<td></td>
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<tr>
<td>Including general works</td>
<td></td>
</tr>
<tr>
<td>on Teutonic group</td>
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</tr>
<tr>
<td>1 Low German</td>
<td></td>
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<tr>
<td>2 Frisian Old Saxon</td>
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<tr>
<td>3 Dutch Flemish</td>
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<tr>
<td>4 Plattdeutsch</td>
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<tr>
<td>5 Scandinavian</td>
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<tr>
<td>6 Old Norse Icelandic</td>
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<tr>
<td>7 Swedish</td>
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<tr>
<td>8 Danish Norwegian</td>
<td></td>
</tr>
<tr>
<td>9 Gothic</td>
<td></td>
</tr>
</tbody>
</table>

| 440 French              |                          |
| 449 Provençal           | Old French, as the earliest form of the language, is 447.01 |

| 450 Italian             |                          |
| 459 Wallachian          |                          |
| 9 Rumansh               |                          |

| 460 Spanish             |                          |
| 469 Portuguese          |                          |

| 470 Latin               |                          |
| 479 Minor Italic Medieval Latin | Including general works on Romance group |

| 480 Greek               |                          |
| 487, Greek dialects, like 930; e.g. 487.2 Alexandrian Greek; 487.3 New Testament Greek; 487.81 Macedonian; 487.923 Ionic, etc. |
| 489 Minor Hellenic Modern Greek | Including general works on Hellenic group |
| Works on Latin and Greek together, unless very clearly most useful in the Latin, go with the Greek, which here as well as elsewhere is made to include general works on the ancient classics |
Minor languages
Each language subdivided if wished like English

Minor Indo-European
Besides Teutonic, 420–439; Italic, 440–479; and Hellenic, 480–489
This head, 491, includes general works on the Indo-European tungs, but
general works on the Teutonic languages go in 439, on the Romance group in
479, on the Hellenic group in 489, while most of the material placed under
400–419 is really Indo-European; but see also 410

.1 Indic
.2 Sanskrit
.27 Sanskrit dialects Prakrit
.3 Pali
.4 Modern East Indian languages
   Excluding Dravidian, which is 494
.41 Sindi
.42 Panjabi
.43 Hindustani Hindi
.44 Bengali
.45 Uriya Orissa
.46 Marathi
.47 Gujerati
.48 'Singhalese
.49

.5 Iranian
.51 Old Persian
.52 Zend (Avestan) Old Bactrian
.53 Pehlevi (Huzwaresh)
.54 Armenian
.55 Modern Persian
.56 Ossetic
.57 Kurdish
.58 Afghani
.59

.6 Keltic
.61 Gædilic group
.62 Irish
.63 Gaelic or Scotch
.64 Manx
.65 Cymric group
.66 Welsh or Cymric
.67 Cornish
.68 Armorican or Bas Breton
.69 Basque

.7 Russian
.79 Ruthenian
491.8 Other Slavonic
   Southeast Slavonic group
   .81 Bulgarian (Church Slavonic)
   .82 Servian
   .83 Kroatian
   .84 Slovenian
   West Slavonic group
   .85 Polish
   .86 Bohemian
   .87 Moravian Slovakian
   .88 Sorbian
   .89 Polabian
   .9 Lettic
      .91 Old Prussian
      .92 Lithuanian
      .93 Lettish (Livonian)

492 Semitic
   Northern group
      Aramaic
      .19 Babylon and Nineveh cuneiform
      .2 Chaldee
      .3 Syriac (Peshito)
         Central group
      .4 Hebrew
      .5 Samaritan
      .6 Phenician (Carthaginian)
         Southern group
      .7 Arabic
      .8 Ethiopic (Amharic)
      .9 Himyaritic

493 Hamitic
   .1 Old Egyptian
      See 419 Hieroglyphics
   .2 Coptic

494 Scythian Ural-Altaic Turanian
   Dravidian Tamil Finnish Turkish

495 Eastern Asiatic Chinese

496 African
   Excluding 493 Hamitic, 492.8 Ethiopic, etc. included in families above

497 North American

498 South American

499 Malay-Polynesian and other
   The Gipsy language is not assigned to any group, but is placed for convenience with 397 Gipsies
Natural Science

500 Science in general

501 Philosophy, theories, utility, etc.
502 Compends, outlines Ancient and medieval science
503 Dictionaries, cyclopedias, etc.
504 Essays, lectures, addresses
505 Periodicals, scientific magazines
506 Societies: transactions, etc.
507 Education, methods of teaching and study
      Museums: Bulletin, The
508 Polygrafi: collected works, extracts, etc.
      .1 Extracts  .2  .3 General scientific travels  .4—.9 Travels and
      surveys (if general) divided geographically like 940—999
509 History of science

510 Mathematics

Works on Mathematics in general not limited to any one or two sections, are
      grouped by form of treatment like Science in general above, i.e., into Mathem-
      atical

510.1 Philosophy  .2 Collections, compends  .3 Dictionaries  .4 Essays, papers
      tracts, letters  .5 Periodicals  .6 Societies  .7 Education  .8 Logarithmic and
      other tables, instruments  .9 History

511 Arithmetic

See 372.7 Teaching elementary arithmetic

.1 Systems of arithmetic
      See also 512.81 Theory of numbers
.2 Notation and numeration Fundamental rules Abacus
.3 Prime numbers
.4 Fractions
.5 Analysis Permutation and combination
.6 Proportion and progression
      .61 Magic squares
.7 Involution and evolution
.8 Mercantil rules Interest Alligation Mensuration
      Gaging
      See also 658 Business manuals
.9 Problems and tables
512 Algebra

1 Systems of algebra

2 Numeric equations Imaginary expressions

2.1 Equations, 1st to 4th degrees

2.2 Higher numeric equations

2.3 Indeterminate equations Diophantine analysis

2.4 Imaginary expressions

3 Algebraic equations Maxima and minima

4 Series Fractions Binomial theorem Taylor's theorem

5 Combinatory analysis

6 Proportion and progression

7 Involution and evolution

8 Higher algebra

8.1 Theory of numbers See 511 Systems of arithmetic

8.2 Theory of equations Complex variable See also 517

8.3 Determinants

8.4 Symmetric functions

8.5 Elimination: eliminants and discriminants

8.6 Transformations Substitutions

8.7 Quantics

8.8 Invariants Covarians Contravarians

8.9

9 Problems and tables

513 Geometry

Plane and solid geometry bound together is put 513. Descriptive geometry is 515.
See also 744 Mathematic drawing

1 Plane geometry

1.1 Right lines

1.2 Intersecting lines

1.3 Parallel lines

1.4 Triangles

1.5 Quadrilaterals

1.6 Other polygons

1.7 Similarity

1.8 Areas

1.9 Maxima and minima

2 Curves

2.1 Circles

2.2 Conic sections

2.3 Ellipse

2.4 Hyperbola

2.5 Parabola

2.6 Higher plane curves
Volumetric or solid geometry

Lines and planes
Intersecting planes
Parallel planes
Polyedrons
Pyramids
Prisms
Regular

With curved surfaces

Sphere
Cone
Cylinder

Modern geometry

Points Lines Planes Duality
Transversals
Cones Conics Involution
Radical axes and centers of similitude
Poles and polars Reciprocal polars
Harmonic and anharmonic properties
Correspondence Correlation of figures
Quadric surfaces: spheroclines, curves of double curvature
Surfaces of higher order: cubics

Absolute or non-Euclidean geometry

Problems

Trigonometry

Trigonometric functions General formulas See 522.7
Trigonometric series
Exponential formulas
Solution of trigonometric equations
Plane trigonometry: solution of plane triangles; analytic
Spheric trigonometry General formulas
Solution of spheric triangles
Differences of triangles, plane and spheric
Problems
Descriptiv geometry and projections

Orthogonal projection on 2 planes

- Straight lines
- Single curved lines
- Double curved lines
- Single curved surfaces
- Double curved surfaces
- Surfaces of revolution
- Warped surfaces
- Intersections of surfaces

Isometric and analogous projections

Oblique projection

Conic projection

Spheric projection

- Orthographic
- Globular
- Stereographic
- Polar
- Gnomonic
- Conic
- Cylindric

Perspectiv

- Plane Parallel Oblique Angular

Shades and shadows

Stereotomy

- Stonecutting
- Carpentry
- Stairbilding
Analytic geometry

Plane loci
  Right lines

Transformation of coordinates

Curves

Conic sections
  Ellipse
  Hyperbola
  Parabola

Higher plane curves

Loci in space

Right lines
  Planes

Transformation of coordinates

Curved surfaces

Conicoids or quadric surfaces
  Ellipsoid
  Hyperboloid
  Paraboloid

Surfaces of higher order

Modern analytic geometry

Systems of coordinates
  Abridged notation
  Conics

Higher plane curves

Poles and polars  Reciprocal polars

Harmonic and anharmonic properties

Method of projection

Quadric surfaces: spherocconics, curves of double curvatures

Surfaces of higher order: cubics

Quaternions: calculus of direction and position

Problems
Calculus

.1 Infinitesimal Method of exhaustion
   Differential and Integral calculus, bound together, is put here

.2 Differential
   .21 Series
   .22 Indeterminate forms
   .23 Change of the independent variable
   .24 Theory of plane curves Curv tracing

.25 Theory of curvilinear surfaces
.26 Maxima and minima

.29 Problems

.3 Integral
   .31 Formulas of reduction and integration
   .32 Definite integrals Eulerian integrals
   .33 Rectification Quadrature Cubature
   .34 Multiple integrals
   .35 Laplace’s functions Bessel’s and allied functions
   .36 Elliptic and hyperelliptic functions Abelian functions

.37 Differential and partial differential equations
.39 Problems and tables

.4 Of variations
.5 Of functions
.6 Of finite differences
.7 Of operations
.8 Of imaginaries Complex variables See also 512.82

.9 Problems

Probabilities

.1 General principles Direct and inverse probabilities
.2 Mathematical and moral expectation
.3 Testimony: decisions of juries and tribunals
.4 Probability of future events deduced from experience
.5 Life contingencies: annuities, life insurance See 368.3
.6 Errors of observation Mean or average values

.7

.8 Method of least squares

.9 Problems
520  Astronomy

520.2 Compends 520.3 Dictionaries 520.4 Essays
520.5 Periodicals 520.6 Societies 520.7 Study and teaching of astronomy
520.8 Collections, etc. 520.9 History of astronomy
See also note under Natural science in general, 500-509

521  Theoretic astronomy

Mathematical investigation of celestial motions, specially of the Solar system.
Motions of individual bodies are cast under separate heads in 523

1  Celestial dynamics

11  General laws of equilibrium and motion  See also 531.2
12  Law of universal gravitation and motion relativ to the sun
    See also 531.51
13  Problem of 3 bodies
14  Figures of heavenly bodies
15  Rotation of heavenly bodies

2  Geocentric and heliocentric place

21  Plane of orbit in space
22  Position of orbit in its plane
23  Position of body in its orbit
24  Position of body in space
25  Heliocentric longitude and latitude
26  Geocentric longitude and latitude
27  Variations of right ascension and declination
28  Variations of longitude and latitude

3  Orbits

31  Definitions of orbits
32  Determination from 3 observations
33  Determination from 4 observations
34  Variation of elements of orbit
35  Correction of approximate elements of orbit
36  Application of method of least squares
37  Kepler's problem
38  Equation of center and radius vector

4  Perturbations

41  Mutual action of planets
42  Action of satellites
43  Nonsphericity of planets
44  Resisting medium

5  Theory of planets

6  Theory of satellites

7  Theory of comets

8  Theory of eclipses

9  Precession and nutation  See also 522.95-6
Practical and spheric Observatories
1 General plan, location
11 Material and mechanism of dome, drum, etc.
12 Transit buildings, wings, etc.
14 High altitude observatories
15 Portable
16
17
18
19 History, reports and serial publications of observatories
2 Telescopes See also 535.83 Optics
21 Reflecting
22 Refracting
23 Eye piece and accessories
24 Object glass
25 Mounting, tube, etc.
26 Equatorial mounting
27 Transit mounting
28 Observing chairs, etc.
29 Famous telescopes
3 Meridional instruments
31 Finding meridian line
32 Mural circles
33 Meridian circles
34 Transit: placing in position
35 Collimation constant
36 Level constant
37 Azimuth constant
38 Other constants, flexure, index error, etc.
39
4 Extra meridional instruments
41 Sextant and quadrant, reflecting circle, astrolabe
42 Altazimuth
43 Zenith telescope
44 Transit out of meridian
45 Heliometer
46 Equatorial
47 Prime vertical
48
49
522.5 Auxiliary instruments

.51 Sidereal clock and chronometer
.52 Electrochronograf
.53 Micrometers
.54 Personal equation machine See 522.97
.55 For illumination
.56 For solar observation
.57 Artificial horizons
.58 Heliostat

.6 Auxiliary observations

.61 Photometry See 535.2 Optics
.62 Photografy See 535.8 Optics; 770 Photografy
.63 Polarization See 535.5 Optics
.64 Spectroscopy See 535.8

.7 Spheric astronomy See also 514.6

.71 Celestial sphere Spheric coordinates
.72 Rectangular coordinates
.73 Transformation of coordinates
.74 Differential variations of coordinates
.75 Interpolation
.76 Meridian line Variation of compass
.77 Reduction of observations to the meridian
.78 Use of globes

.9 Corrections

.91 Parallax
.92 Refraction See 535.3 Optics
.93 Semidiameter of celestial bodies
.94 Aberration
.95 Precession See 521.9
.96 Nutation
.97 Personal equation See 522.54
.98 Instrumental errors
.99
### Descriptiv astronomy

#### .1 Universe
- .11 Structure of universe
- .12 Nebular hypothesis
- .13 Plurality of worlds
- .14 Space and its temperature
- .15 Resisting medium
- .16 Cosmic dust
- .17 Repulsiv force

#### .2 Solar system
- .21 Distributiv laws of planets
- .22
- .23 Conjunctions and oppositions
- .24 Motion of solar system in space
- .25 Constitution of planetary system
- .26 Stability of solar system  Ecliptic
- .27
- .28 Orrery, planetarium, gyroscope, etc.  See 531.34 Rotation
- .29 Zodiac

#### .3 Moon
- .31 Constants: size, mass  Distance and parallax
- .32 Heat and light  Phases
- .33 Orbit and motions  Sidereal month, tropical, perigee and apogee, sun and earth’s attraction, librations  See also 521.6 for Orbit
- .34 Features of surface: mountains, plains, etc.
- .35 Atmosphere
- .36 Physical condition
- .37 Spectrum
- .38 Eclipses
- .39 Charts, photografs, etc.

#### .4 Planets
- .41 Mercury and intramercurial
- .42 Venus
- .43 Mars
- .44 Asteroids
- .45 Jupiter
- .46 Saturn
- .47 Uranus
- .48 Neptune and transneptunian
- .49 Charts, photografs, etc.
523.5 Meteors and zodiacal light

.51 Aerolites
.52 Fireballs
.53 Meteoric showers, radiant points, etc.
.54 Systems of meteors
.55 Connection of comets and meteors
.56 Spectrum
.57 Hight of atmosphere from observation
.58 Zodiacal light Aurora (borealis and australis)

.6 Comets

.61 Appearance and development
.62 Orbits
.63 Remarkable comets
.64 Physical constitution
.65 Spectrum
.66 Charts, photographs, etc.

.7 Sun

.71 Constants, dimensions
.72 Heat and light: theories as to source
.73 Apparent motion Rotation See 525.38 Tables
.74 Spots, faculae, and other features of surface
.75 Prominences, chromosphere, corona
.76 Theories of physical constitution
.77 Spectrum
.78 Eclipses
.79 Charts, photographs, etc.

.8 Stars

.81 Stellar parallax, distance
.82 Heat and light Photometric observations Magnitude
.83 Proper motion, stardrift
.84 Variable, double, and multiple stars
.85 Clusters and nebulas
.86 Physical constitution
.87 Spectrum
.88 Constellations, maps, etc.

.9 Transits and occultations

.91 Transits of Mercury
523.92 Transits of Venus and solar parallax
   .93 Delisle's method
   .94 Halley's method
   .95 Photographic method
   .96 Transits of Venus to 1874
   .97 Transit of 1882
   .98
   .99 Occultations

[524] Maps, observations, and tables

Series of observatory publications may be kept together under 514, or under 522.91 with the history and reports of the observatory. Special maps or observations, e.g. on Sun or Moon, are better placed in subsections under these heads, with charts and photographs, e.g. 573.79, thus leaving these bracketed numbers 524 to 524.9 blank. They are printed to provide a place in case it is wished to keep all maps and observations together

.3 Of moon  See also 523.39
.4 Of planets  See also 523.49
.5
.6 Of comets  See also 523.69
.7 Of sun  See also 523.79
.8 Star catalogs  See also 523.89

525 Earth

.1 Constants
   .11 Mass  Weight
   .12 Density
   .13 Dimensions, diameter
   .14 Figure: geomorphy, equatorial belt
   .15 Distance from sun
   .16 Parallax

.2 Heat  Light

.3 Orbits and motions
   .31 Period of revolution
   .32 Obliquity of ecliptic to equator
   .33 Eccentricity
   .34 Perturbations
   .35 Rotation
   .36 Foucault's pendulum
   .37 Deviation of falling bodies and projectiles
   .38 Tables of the sun  Apparent motion  See 523.73 Sun

.4 Geografic coordinates
   .41 Finding latitude  See also 527.1
   .42 By meridian altitudes
   .43 By Pole star
   .44 By altitude of 2 or more stars
   .45 By other methods
   .46 Finding longitude  See also 527.2
   .47 Terrestrial means: chronometers, telegraf, signals
   .48 Celestial signals: eclipses, occultations, transits
   .49 Lunar methods
525.5 Seasons
.51 Effect of inclination of equator to ecliptic
.52 Effect of eccentricity of earth's orbit
.53 Secular changes of seasons
.54 Seasons on Mars and other planets

.6 Tides
.61 Mathematical theory
.62 Effect of sun and moon in producing tides
.63 Distribution, diurnal inequality, spring and neap, priming and lagging
.64 Establishment of a port Coast form modification
.65 Velocity of height of tide wave
.66 Tides on inland seas
.67 Supposed effect in retarding Earth's revolution
.68 Tide registering and predicting machines
.69 Tide tables

.7 Twilight

526 Geodesy

.1 Theory and determination of Earth's figure
.11 Potentials of ellipsoids
.12 Equilibrium of rotating spheroid
.13 Law of ellipticity
.14 Airy's and Pratt's theories as to attraction of mountains
.15 Determination of figure by Airy, by Bessel, and by Clarke
.16 Ellipsoidal figure and position of axes
.17 Geoidal figure

.2 Base measuring and apparatus
.21 Standards of length and temperature
.22 Apparatus of Struve, Bessel, Colby, U. S. coast survey, U. S. lake survey, etc.
.23 Adjustments of apparatus
.24 Location of base line
.25 Field operations
.26 Calculation of results and corrections
.27 Verification

.3 Field work of triangulation
.31 Reconnaissance
.32 Stations
  * Names, signals, tripods, scaffolds and towers, surface and underground monuments
.33 Observations, instruments and records
.34 Reduction to station's center
.35 Corrections for phase of signal and eccentricity
.36 Spirit leveling
.37 Barometric leveling
.38 Trigonometric leveling

These are methods. See 551.53, for results, lists of heights, etc.
Computation of triangulation

Spheric excess
Legendre's theorem
Chord process
By spheric trigonometry
By spheroidal trigonometry

See also application of least squares, 522.6

L M Z formulas and applications

Direct deduction by Bessel
Deduction by Puissant
Tables for computation

Theory of least squares in adjustment of figures, etc.

Method of independent angles
Adjustment of a quadrilateral
Adjustment of triangulation net
Method of directions
Adjustment for closure of a circuit
Method of repetitions
Adjustments of base measures
Adjustments of leveling

Astronomic determinations and their connection with geodetic results

Latitude determinations
Longitude determinations
Azimuth determinations
Effect of irregularities of Earth's surface on latitude, longitude and azimuth
Effect of same on angles of triangle

Gravity experiments and results

Mathematical theory
Pendulum apparatus
Pendulum operations
Corrections
Reduction of results

Map projections

Prospectiv projections
Orthomorhic projections
Development projections
Zenithal projections
Equivalent projections
Surveying

Instruments and methods  See 526.2
Mesurement of distances
Mesurement of angles
Mesurement of hights
Leveling  See 526.36-38
Plotting
Computation of areas
Topograpic drawing
For special purposes: military, naval, railroad, mining, etc

Navigation

Finding latitude at sea  See also 525.41
Finding longitude at sea  See also 525.46
Finding time at sea  See also 529.74
Sumner's method
Great circle sailing

Ephemerides

American
English
German
French
Italian
Spanish
Slavic
Scandinavian
Construction of ephemeris

Chronology

Sidereal and solar day
Apparent and mean time, equation of time, causes of inequality
Solar year, months
Calendars; including early and Oriental
Calendar of Julius Caesar
Calendar of Gregory
Ecclesiastic calendar: determination
For feasts, etc. and calendars themselfs, see 264.021, 264.031, etc.
Horology
Finding time by transit
Finding by equal altitudes
Finding by single altitude
Finding by sextant  See also 527.3
Time systems, and standards
Distribution of time
Cosmic time
Instruments for measuring: dials, hourglasses, clocks, watches, etc.
See 522.51 for Sidereal clocks and chronometers
See 681 for Clock and watch making
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<th>Page</th>
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<th>Subsection</th>
<th>Topic</th>
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<tr>
<td>530</td>
<td><strong>Physics</strong></td>
<td></td>
<td>Like Science in general: viz, general works only are arranged</td>
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<tr>
<td>530.1</td>
<td>Philosophy</td>
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<td>5. Compends</td>
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<td>530.2</td>
<td>Science</td>
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<td>6. Dictionaries</td>
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<tr>
<td>530.3</td>
<td>Essay, lectures, etc.</td>
<td></td>
<td>7. Periodicals</td>
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<tr>
<td>530.4</td>
<td>Societies</td>
<td></td>
<td>8. Essays, lectures, etc.</td>
</tr>
<tr>
<td>530.5</td>
<td>Education, methods of teaching, experiments</td>
<td></td>
<td>9. Physical units, measuring instruments</td>
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<tr>
<td>531</td>
<td><strong>Mechanics</strong></td>
<td></td>
<td>Theory of laws of motion, the art of lever, lever, wheel, balance, etc.</td>
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<tr>
<td>1</td>
<td>Pure motion</td>
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<td>Kinematics</td>
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<td>Statics</td>
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<td>Grafic statics</td>
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<td>2.1</td>
<td>Force and its measure</td>
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<td>2.2</td>
<td>Composition of forces and motions</td>
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<td>Moments</td>
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<td>Parallel forces Center of gravity</td>
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<td>Dynamics</td>
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<td>Kinetics</td>
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<td>3.1</td>
<td>Rectilinear motion</td>
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<td>Vibration</td>
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.1 Properties of liquids Pressure
.2 Equilibrium of liquids
.3 Buoyant effects Floating bodies
.4 Specific gravity Hydrometer
.5 Liquids in motion
  .51 Theoretic flow
  .52 Orifises, adjutages, fluid vein
  .53 Weirs, overfalls
  .54 Pipes, open channels, rivers
  .55 Bends, valvs, sudden enlargements and contractions
  .56 Efflux; variable pressure
  .57 Hydrometry Velocity
  .58 Impulse and resistance
  .59 Theory of waves
.6 Capillary attraction
.7 Osmose Absorption
.8 Applications Machines See 621.2 Water engines
   Except for libraries making Physics much more prominent than Useful arts, all
   the 'Applications' will be more useful under their proper heads in Useful arts.
   It is better to keep all the material in one place, referring to it from the other,
   rather than attempt division
   .81 Hydraulic press See also 621.266
   .82 Hydraulic engin See also 621.25
   .83 Water ram See also 621.27
   .84 Water wheels See also 621.21
   .85 Water blast See also 621.269
.9 Tables Problems Questions

533 Gases Pneumatics

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.4 Barometer
.5 Air pump
.6 Aeronautics
.7 Kinetic theory of gases
.8 Applications See 621.6 Blowing and pumping engines
   Preferably clast in Useful arts, see 532.8, note
   .82 Manometer Pressure gages See 621.18 Steam generation
   .83 Condensing pump
   .84 Force pump
   .85 Suction pump
   .86 Diving bell
   .87 Forge bellows
   .88 Pneumatic dispatch
.9 Tables Problems Questions
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1. Theory
2. Undulations
3. Propagation of sound: velocity, diffraction
4. Musical sound
5. Tuning forks
6. Analysis of sounds
7. Resonators
8. Superposition of vibrations
9. Grafic representations
10. Physiologic: ear and larynx
11. See also 781.1 Theory of music
12. Applications
13. Preferably class with topics elsewhere
14. See 532.8, note

Light

1. Theory
2. Propagation
3. Velocity
4. Measurement of light
5. Reflection
6. Refraction
7. Absorption
8. See also 522.92 Astronomy
9. Dispersion
10. Diffraction
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12. Polarization
13. Polarscope
14. Double refraction
15. Color
16. Physiologic: eye
17. See also 611.84 Anatomy; 612.84 Physiology; 617.7 Surgery; 362.1 and .4 Hospitals; 152.2 Psychology
18. Applications
19. Preferably class with topics elsewhere
20. See 532.8, note
21. Lenses
22. Microscopes and magnifiers
23. See also 578 Microscopy
24. Telescopes
25. See also 522.2 Astronomy
26. Spectroscopes and spectrum analysis
27. See also 544.6 Chemistry; 522.67 Astronomy; 523.37 Moon; 523.57 Meteors, etc.
28. Photography
29. See also 770
30. Other applications of lenses
31. Mirrors and reflecting instruments
32. Lighthouses
33. See also 627.9 Harbor engineering; 656 Commerce
34. Tables
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.2 Communication

.3 Action of bodies on heat
  .31 Reflection
  .32 Refraction
  .33 Radiation
  .34 Absorption
  .35 Diathermancy

.4 Effects Action of heat on bodies
  .41 Expansion
  .42 Liquefaction
  .43 Solidification
  .44 Vaporization and condensation
  .45 Incandescence
  .46 Combustion Flame

.5 Temperature See also 531.52 Meteorology; 613.18 Hygiene
  .51 Thermometry
  .52 Pyrometry
  .53 Electric methods of measuring

.6 Calorimetry

.7 Thermodynamics Mechanical equivalent

.8 Applications Preferably go in Useful arts. See 532.8, note
  .81 Steam engines See 621.1 Engineering
  .82 Gas engines See 621.43 Engineering
  .83 Heating See 697, 621.19, 628.8, 644
  .84 Ventilation See 697, 622.4, 628.3

.9 Tables Problems Questions

537 Electricity

.1 Theory Nature

.2 Static
  .21 Quantity, potential
  .22 Conduction, distribution
  .23 Machines
  .24 Condensers
  .25 Electrometers

.3 Atmospheric Lightning rods

.4 Dynamic
  .51 Theory of coils Constants
  .52 Induction spark
  .53 Induction spark in rarified gases

.6 Electro dynamics

.7 Electric measurements
### 537.8 Applications

- See 621.3. Preferably clast in Useful arts. See 532.8, note
  - .81 Telegraf See 654
  - .82 Telephone Microfone
  - .83 Dynamos Electric lighting
  - .84 Transmission of power Storage
  - .85 Electrometallurgy
  - .86 Galvanometers Batteries Coils
  - .87 Medicin See also 615.84
  - .88 Electric signals

### 538 Magnetism

For 'Animal magnetism,' Mesmerism, etc., see 134

- .1 Theory Properties of magnets Lines of force
- .2 Communication Induction Touch
- .3 Electromagnetism
- .4 Diamagnetism
- .5
- .6
- .7 Terrestrial magnetism
- .8 Applied Magnetic machines
- .9 Tables Problems Questions

### 539 Molecular physics

- .1 Theory Molecular structure Vortex rings
- .2 Properties of solids
- .3 Elasticity Torsion
- .4 Strength of materials
  See also engineering 620.11
- .5 Permanent displacement of molecules
  - .51 Malleability
  - .52 Ductility
  - .53 Hardness
  - .54 Tempering
- .6 Intermolecular forces
- .7
- .8
- .9 Tables Problems Questions
Chemistry

540

Pure or theoretic chemistry
.1 Theories, alchemy, phlogiston .2 Compend .3 Dictionaries, cyclopedias
.4 Essays, lectures, etc. .5 Periodicals .6 Societies .7 Education, methods
of teaching .8 Collectiv works .9 History

SUMMARY
541-542 General chemistry
541 Chemic theories
542 Operativ and experimental chemistry
543-545 Analytic chemistry
543 Analysis
544 Qualitativ analysis
545 Quantitativ analysis
546 Inorganic chemistry
547 Organic chemistry

REFERENCES
612.015 Physiologic chem 
615 Medical "
616.076 Pathologic "
660 Chemic technology
669 Metallurgy
770 Photografy

541 Theoretic chemistry

Physical chemistry

Modern chemic theories General properties of bodies from chemic point of
view Composition Constitution Elements and compounds Affinity
Formulas Nomenclature

.1 Atomic theory

Ultimate constitution of matter. Nature and phases of ultimate particles:
atoms, ions, anions, kations, electrons. Atomicity. Relationship of mass to
chemic properties of bodies. Laws of chemic combination: weight, definit
proportions, equivalence, multiple proportions. Laws of volume for gases.
Simple or compound nature of chemic elements. Molecules. Atomic and
molecular weights; methods of determination. Atomic and molecular volumes.
Laws fundamental to atomic theory; see also 541.9 Classification, periodic law,
etc.
See also physics, 532.4 Specific weights

.2 Physical chemistry

Borderland between physics and chemistry. Including densities in different
phases; chemic affinity, statics and dynamics; thermochemistry and electro-
chemistry

.31 Solid state

See also physics, 536.43 Solidification; 539.2 Properties of solids

.32 Liquid state

See also physics, 532.1 Properties of liquids; 536.42 Liquefaction; 541.34
solution

.321 General

Surface tension, vapor tension, viscosity, capillarity

.325 Special types of liquids: gelatinous liquids

.326 Inorganic liquids

.327 Organic liquids

.33 Gaseous state

Subdivide like 541.32. See also physics, 533.1 Properties of gases; 536.44
Vaporization
Practical and experimental chemistry

Manipulations Chemic operations For analyses see 543–545

1 Laboratories
Interior construction and installation General arrangements For architecture see 727.5

2 Apparatus and manipulations For special apparatus see 542.3–9

21 Manipulations Arrangements Procedure

22 Preparation of substances
Mechanic separation: trituration, pulverisation, porphyrization; mortars and pestles, crushers, sifting and sieves. Disintegration by wetting heated mass. Levigation

23 Laboratory receptacles and their accessories
For uses of receptacles see also various processes and operations

231 Glass and quartz
Beakers, bottles, flasks, retorts, test tubes, funnels, adapters, glass rods and tubing

Glass manipulation: blowing, grinding

232 Glassware
Evaporating dishes, tubes, retorts. Refractory pottery: crucibles, plates

233 Porcelain
Containers made of platinum, silver, iron, nickel, aluminum, etc.

24 Supports Fixt, adjustable, wood. Tripods, tripods, clamps

25 Stoppers Glass, cork, rubber Corkborers

26 Rubber tubing Luting and cements

29 Other appliances

3 Measuring apparatus

32 Determination of weights and density
Balances and weights Descriptions and directions for use

33 Specific gravity apparatus Class preferably in 532.4

35 Determination of volume
Mesuring volume of liquid Calibrated vessels Graduated pipets, burets and cylinders

4 Heating Distillation
See also 536.5 Measurement and regulation of heat; 542.53 Blowpiping

41 General

42 Heating with coal
Laboratory furnaces: trough, cupola, reverberatory, tubular, cupel, blast Tube furnaces for organic analysis

43 Heating with liquid fuels, etc. Lamps; special burners

44 Heating with gas
Coal gas, carburetted air, acetylene, etc. Fishstail and Bunsen burners; gas furnaces and grates; pressure regulators

46 Indirect heating
Baths and heaters: water baths; salt, metal and oil baths; metal plates or wire gauzes

47 Electric heating
Heaters, muffles and furnaces; kryptol furnaces See also 542.8 Electric and galvanic manipulations

48 Operations

49 Other heating operations
Flames

Blowpipes

See also 544.2 Dry methods of analysis; 669.9 Assaying

.51 Flame
Nature of flame; candle flame; oxidizing and reducing flames

.52 Coloration of flame
Beads, colored beads Composit flames

.53 Blowpipes

Aqueous and liquid treatment

Dissolving, aqueous separation, levigation, etc; alcohol, ether, carbondisulfd, hydrocarbons, etc.

.61 Dissolving Solution
Solvents, maceration, digestion, decoction, lixiviation

.62 Determination of solubility Supersaturation
Supersaturated solution

.63 Diffusion
Lowering the solidification point or surfusion

.64 Dialysis Dializers
See also qualitativ analysis 544.5 Dialysis

.65 Solidification
Precipitation, crystallization, crystallisers

.66 Decantation
Decantation funnels, Florentin receivers, siphons, pipets

.67 Filtration and filters
Filtration with textiles, with paper, thru cotton, asbestos, powders, etc.
Hot filtration Filtration in sealed vessels, by suction, by compression
Filter presses

.68 Expression and presses Drying of press residues; drying machines

.69 Washing Continuous, automatic; decantation, wash bottles

Gas manipulation

See also 545.7 Eudiometry

.71 General

.72 Gas production

.73 Gas collecting and decanting
Pneumatic trough, gas sampling-tube, gas pipets; displacement and decanting

.74 Washing and dissolving gas
Wash bottles Apparatus for drying and absorbing gas

.75 Gas storage Gasometers, rubber bags

.76 Gas measurement Graduated tubes, meters

.77 Rarefaction of gas
Pumps: air, vacuum, mercury; blowing engines, bellows, suction gasometers; manometers; vacuum regulators; trompes
See also physics, 533.5 Air pumps

.78 Gas compression
Sealed tubes and bulbs, bellows, compression pumps, gasholders

.79 Gas liquefaction and solidification
Paraday tubes Apparatus for expansion; of Thilorier; of Cailletet and Linde

Electric and galvanic manipulations

See also physics, 537.85 Applications of electricity to chemistry. Class here only apparatus for preparing chemic substances, not apparatus for study of phenomena. For analytic apparatus see special substance under 543 or special process under 544 or 545

.9 Other operations
Attacks by acids and gases; oxidations, reductions, etc.
### 543 Analytic chemistry

Divided by material analyzed, whether qualitatively or quantitatively; i.e., substance takes precedence of process. Class in 543 general works covering both qualitativ and quantitativ analysis

See also 614.3 Adulterations

#### 1 Analysis of food and drink

See also 613.2 Hygiene, 612.39 Nutrition

Dairy products  Milk  
See also agriculture, 637 Dairy products

#### 2 Water

See also hygiene 613.31 Water as a beverage; and therapeutics 615.79 Mineral waters

#### 3 Analysis of drugs and medicines

See also 614.35 Inspection of drugs; 615 Medicin

Poisons  
See also 615.9 Toxicology

#### 4 Analysis of rocks and ores

See also 549 Mineralogy, 669.9 Assaying, 631 Agricultural chemistry

#### 5 Analysis of inorganic products in general

For general works and special matter not provided for in previous subdivisions of 543

#### 6 Analysis of organic products in general

For general works and special matter not provided for in previous subdivisions of 543

#### 7 Analysis of organic products of animal origin

For general works and special matter not provided for in previous subdivisions of 543. See also 577 Biology

### 544 Qualitativ analysis

Determination of chemic elements of substances General processes and methods

#### 1 Wet method

#### 1.1 Reagents

#### 1.2 Determination of bases

#### 1.3 Determination of acids

#### 2 Dry method

See also 669.9 Assaying

#### 3 Blowpiping

See also 542.53 Manipulation, 549.1 Mineralogy

#### 4 Gas analysis  Reactions

Identifying an isolated gas Analysis of gaseous mixtures  
Eudiometry  
See also 545.7

#### 5 Dialysis

For technic see 542.64; for electric dialysis see 542.8

#### 6 Spectrum analysis

See also physics, 535.84 Spectrum analysis

#### 7 Polariscope analysis

See also physics, 535.5 Polarization

#### 8 Microscopic examinations

#### 9 Other methods

Electro analysis

#### .92 Capillary analysis
Quantitativ analysis

1. Gravimetric
   Analysis by weighing, samplletaking

2. Wet method
   Titration solution, alkalimetry acidimetry

3. Electric methods
   See also physics, 537.85 Electrometallurgy
   For galvanoplastics see 671
   Constant current analysis
   Constant voltage analysis
   Catalytic analysis

4. Dry method
   Quantitativ analyses with blowpipe, cupellation, etc.
   See also 669.9 Assaying

5. Titrometric methods in general

6. Volumetric analysis of liquids
   See also 542.3 Measuring apparatus

7. Volumetric analysis of gases
   Eudiometry and eudiometers; gas burets, absorption pipets
   See also 544.4 Gas analysis

8. Other methods
   Colorimetric Polarimetric Refractometric

9. Synthesis
   General processes

97. Electric synthesis
# Inorganic chemistry

## Nonmetallic elements

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## Alkaline earths

Calcium and magnesium groups considered together

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<td>Barium</td>
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## Magnesium group

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- Led
- Thallium

Silver group

- Copper
- Silver
- Mercury

Cerium group

- Yttrium
- Cerium
- Lanthanum
- Didymium
- Praseodymium
- Neodymium
- Erbium
- Ytterbium
- Terbium
- Aluminum
- Indium
- Gallium

Other metals of rare earths

- Scandium
- Samarium or decipium
- Gadolinium
- Germanium
- Europium
- Thulium

Iron group

Iron and chromium groups considered together

- Manganese
- Iron
- Cobalt
- Nickel

Chromium group

- Chromium
- Molybdenum
- Tungsten or wolfram
- Uranium

Tin group

Tin and vanadium groups considered together

- Tin
- Titanium
- Zirconium
- Thorium
- Actinium

Vanadium group

- Vanadium
- Antimony
- Bismuth
- Tantalum
- Niobium or columbium
- Polonium
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.1 Cyanogen and its compounds
.2 Hydrocarbons  Fatty series
  .21 Paraffins
  .22 Olefins
  .23 Acetylenes
  .24 Valylene  Dipropargyl, etc.
.25 Aromatic series
  .26 Benzenes
  .27 Diphenyl group
  .28 Naphthalene  Anthracene  Phenanthrene
  .29 Higher series
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.3 Alcohols  Phenols
.4 Ethers: simple, compound; haloid
.5 Aldehydes
.6 Ketones  Quinones
.7 Acids: acid halids, acid anhydrids, sulpho-acids
.8 Nitroderivates: amines, compound ammoniums, amids,
    amic acids, azo-bodies, azoxy-bodies, hydrazo-bodies,
    diazo-bodies
.9 Compounds with metals
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1. Systems of crystallization
2. Twin crystals  Crystallin aggregations
3. Cleavage  Isomorfism  Polymorfism
4. Irregularities  Internal imperfections
5. Formation and growth of crystals
6. Pseudomorfs
7. Mathematic: mesurement of angles
8. Physical
9. Optical

Mineralogy

1. Determinativ  Blowpiping  See also 543.5; 544.3
2. Nativ elements
3. Sulfids, tellurids, selenids, arsenids, antimonids, bismuthids
4. Compounds of chlorin, bromin, iodin, and fluorin
5. Oxygen compounds: oxids
6. Silicates
7. Other ternary oxygen compounds
8. Borates
9. Tungstates  Molybdates  Chromates
10. Anhydrous sulfates
11. Hydrous sulfates
12. Tellurates
13. Carbonates
14. Oxalates
15. Hydrocarbons
16. Geografic distribution
550 Geology

550.1 Philosophy, theories, geologic time
.2 Compends
.3 Dictionaries
.4 Essays
papers, tracts, letters
.5 Periodicals
.6 Societies
.7 Study and teaching,
museums
.8 Collectiv works
.9 History

551 Physical and dynamic geology

Including Physical geografia For Cosmic geografia, see 523

.1 Structure of earth as a whole

.11 Interior of earth
.12 Internal heat
.13 Earth’s crust
.14 Conductivity of rocks

.2 Seismology

.21 Volcanoes
.22 Earthquakes
.23 Hot springs, geysers
.24 Oscillations of the earth’s crust

.3 Erosion and deposition

.31 Glaciers and glacial phenomena
.32 Moraines
.33 Transported materials, till
.34 Icebergs
.35 Aqueous erosion
.36 Coast changes
.37 Aerial erosion

.4 Surface features of the earth

.41 Continents
.42 Islands
.43 Mountains Valleys Orolgy
.44 Caves
.45 Plains
.46 Oceans
.47 Ocean currents
.48 Rivers Lakes
.49 Springs Wells Ground water

Division of Oceans for use under .46 and .47
1 Atlantic North sea Baltic
2 Mediterranean Black sea
3 Gulf of Mexico Caribbean
4 Southern Atlantic
5 Pacific
6 Eastern Pacific or American coast
7 Indian Bay of Bengal Red sea
8 Arctic
9 Antarctic

.5 Meteorology

.51 Atmospheric currents Winds
.52 Thermometry, heat See also 536.5 Temperature; 613.18 Hygiene
.53 Hypsometry See 526.36-8 for methods
.54 Barometry, pressure
.55 Storms
.56 Climate
.57 Moisture: rainfall, flow of streams, floods
.58 Prairies, forests, and deserts
Stratigraphic geology

Archean
Primary, paleozoic, Cambrian
Silurian
Lower Silurian
Upper Silurian
Devonian Old red sandstone
Carboniferous
Secondary, mesozoic, triassic and Jurassic: lias, oolite
Cretaceous
Tertiary
Eocene
Miocene
Pliocene
Quaternary Postplicene Glacial
Recent

Structural geology

Stratification
Curvature and contortion
Ripple marks and sun cracks
Joints Cleavage Polarity in rocks
Dip Outcrop Strike
Anticlinal Synclinal
Faults and folds Dislocations
Veins Dykes Necks Bosses

Agents of geologic work

Frost
Water
Atmosphere
Chemic changes Heat
Animals
Coral reefs
Plants
Segregation and concretion
Other agents
Igneous rocks
Volcanic rocks
Lavas  Scoria
Volcanic ashes  Volcanic tufa  Tuff
Obsidian  Pumis  Pitchstone
Trachyte
Rhyolite
Andesite  Dacite  Phonolite
Felsites
Basalt
Other volcanic rocks
Plutonic rocks
Porphyry  Porphyrite
Syenite
Granit
Diabase and gabbro
Dolerite
Diorite
Norite
Peridotite
Other Plutonic rocks
Metamorphic rocks
Granits and syenites
Gneiss
Schists
Slates  Argillite  Phyllite
Quartzite  Novaculite  Itacolumite
Marble  Crystallin limestone
Serpentine
Chrysolitic rocks
Other metamorphic rocks
Sedimentary rocks
Sandstone  Conglomerate  Sand Gravel
Shale  Clay  Silt
Gypsum  Salt
Limestone  Marl  Ooze
Dolomite
Oolite
Infusorial or diatomaceous earth
Glaucnite  Greensand
Other sedimentary rocks
Meteorites
Decay of rocks
Microscopic petrography
Determination of rock minerals
Rock structure
Metamorphism

Stratigraphic geology

Archaean

Primary, paleozoic, Cambrian

Silurian

Lower Silurian

Upper Silurian

Devonian Old red sandstone

Carboniferous

Secondary, mesozoic, triassic and Jurassic: lias, oolite

Cretaceous

Tertiary

Eocene

Miocene

Pliocene

Quaternary Postpliocene Glacial

Recent

Structural geology

Stratification

Curvature and contortion

Ripple marks and sun cracks

Joints Cleavage Polarity in rocks

Dip Outcrop Strike

Anticlinal Synclinal

Faults and folds Dislocations

Veins Dykes Necks Bosses

Agents of geologic work

Frost

Water

Atmosphere

Chemical changes Heat

Animals

Coral reefs

Plants

Segregation and concretion

Other agents
Lithology Petrography Petrology

**Igneous rocks**
- Volcanic rocks
  - Lavas
  - Scoria
  - Volcanic ashes
  - Volcanic tufa
  - Tuff
- Obsidian
- Pumis
- Pitchstone
- Trachyte
- Rhyolite
- Andesite
- Dacite
- Phonolite
- Felsites
- Basalt
- Other volcanic rocks

**Plutonic rocks**
- Porphyry
- Porphyrite
- Syenite
- Granit
- Diabase and gabbro
- Dolerite
- Diorite
- Norite
- Peridotite
- Other Plutonic rocks

**Metamorphic rocks**
- Granits and syenites
- Gneiss
- Schists
- Slates
- Argillite
- Phyllite
- Quartzite
- Novaculite
- Itacolumite
- Marble
- Crystallin limestone
- Serpentine
- Chrysilitic rocks
- Other metamorphic rocks

**Sedimentary rocks**
- Sandstone
- Conglomerate
- Sand
- Gravel
- Shale
- Clay
- Silt
- Gypsum
- Salt
- Limestone
- Marl
- Ooze
- Dolomite
- Oolite
- Infusorial or diatomaceous earth
- Glauconite
- Greensand
- Other sedimentary rocks

**Meteorites**

**Decay of rocks**

**Microscopic petrography**
- Determination of rock minerals
- Rock structure
Economic geology

.1 Ore deposits
  .11 Formation and structure
  .12 Classification
  .13 Superficial: placers
  .14 Stratified: beds, etc.
  .15 Unstratified
  .16 Disseminated thru eruptiv rocks
  .17 Stockwerks  Fahlbands  Contacts
  .18 Chambers and pockets  Impregnations
  .19 Mineral veins

.2 Carbon series
  .21 Peat
  .22 Lignite and jet
  .23 Cannel coal  Bituminous shale
  .24 Bituminous and semibituminous coals
  .25 Anthracite and grafitic anthracite
  .26 Grafite  Plumbago
  .27 Asfalt and asfaltic coals  Ozocerite
  .28 Petroleum  Natural gas
  .29 Fossil gums and resins

.3 Ores of iron

.4 Ores of metals other than iron
  .41 Ores of gold
  .42 Ores of silver
  .43 Ores of copper
  .44 Ores of led
  .45 Ores of zinc and tin  Mercury
  .46 Ores of manganese and chromium
  .47 Ores of antimony and arsenic
  .48 Ores of nickel and cobalt
  .49 Other metallic ores

.5 Biding stones
  .51 Marbles and limestones
  .52 Granits and syenites
  .53 Sandstones
  .54 Slates
  .55 Serpentines  Soapstones
  .56 Porphyries
  .57 Trap
  .58 Tufa  Peperino
  .59 Other biding stones
Earthy economic minerals

- Fire clays
- Brick clays
- Potter's clays
- Sands
- Rock salt
- Gypsum
- Phosphates
- Apatite
- Guano
- Emery
- Heavy spar
- Sulfur
- Asbestos, etc.
- Limes and mineral cements
- Other earthy economic minerals

Mineral waters

Divide general works geographically like 930-999; e.g., Mineral waters of Germany, 553.7043

- Alkaline
- Saline
- Chalybeate, iron-bearing
- Sulfuric
- Calcic

See also 551-23

Gems
Ornamental stones

Other economic minerals

Geology of Europe
Geology of Asia
Geology of Africa
Geology of North America
Geology of South America
Geology of Oceanica
Polar regions

Paleontology

Use form divisions as in 550 and divide geographically like 930-999; e.g., Paleontology of Germany is 560.943

Plants
Invertebrates
Protozoa
Radiates
Mollusks
Articulates
Vertebrates
Fishes
Batrachia
Reptiles
Birds
Mammals
Prehistoric archeology

For Customs, see 390
For Archeology of special countries, see 913

Paleolithic, or early stone age

Drift remains
Cave men
Remains of animals    Shells
Chipt stones
Flint flakes    Arrow heds    Knives, etc.
Other stone remains
Other remains

Neolithic, or late stone age

Stone quarries
Remains of animals
Polisht stones
Sharpend stones: cels, tools, weapons
Perforated stones: spindles, net sinkers, pipes
Hollowd stones: mortars, cups, food vessels
Other stone remains
Other remains

Bronze age

Ancient copper and tin mining
Bronze remains
Tools    Wepons, etc.
Cups    Vessels
Other remains

Iron age

Other remains

Implements of wood
Implements of bone
Basket work
Textil fabrics
Pottery
Glass

Rudiments of art    Ornaments

Drawings
Paint
Sculptures
Beads
Dwellings
.
- Natural caves
- Earth houses Pit dwellings Weems
- Lake dwellings Crannoges
- Cliff dwellings
- Pueblos
- Tents as dwellings

Mounds and monuments
- Mounds and mound biders
- Grave mounds
- Kitchen middens Shell banks
- Monoliths Cromlechs
- Circles Labyrinths
- Cairns

Ethnology Anthropology
See also 136.4 Mental race characteristics
- Unity of the human race
- Diversity of races
- Migrations of men
- Original home of man: Eden, Atlantis, etc.

Races divided by language like 400
Races divided by countries like 930-999
Divide by countries where possible. Use language divisions for groups like Semitic, Aryan, Teutonic, English, etc.

Natural history of men Somatology
- Man’s place in nature
- Origin of man
- Antiquity of man
- Influence of climate and surroundings
- Color in man
- Anthropometry
- Craneology
- Dwarfs and giants
- Monstrosities

See also 611.012 Teratology; 613.91 Congenital defects; 617.3 Deformities
Homologies

Evolution

See also 213 Creation; 215 Religion and science; 239.8 Apologetics

Heredity See also 136.3 Mental; 233.3 Moral; 129.2 Origin of soul

Variation See also 591.15 Physiologic zoology

Environment See also 136.2 Mental; 573.4

Natural selection Survival of the fittest

Sexual selection

Development

Degeneration

Origin of species

Origin of sexes See also 591.36 Embryology

Origin and beginnings of life [576-577 are undergoing revision that will change some numbers and greatly enlarge them in the next edition]

Spontaneous generation

Protoplasm Bioplasm

Cells

Beginnings of motion and sensation

Properties of living matter

Chemic: difference between organic and inorganic

Life: difference between dead and living matter

Difference between vital and physical phenomena

Conditions of life: moisture, temperature

Difference between plants and animals

Vital force

Deth See also 612.013

Sex in nature

Microscopy See also 535.82 Optics

Varieties of microscopes

Optic parts

Mechanical parts

Accessory apparatus and management of microscope

Illuminating apparatus

Preparation and mounting of objects

Special preparation and study of inorganic material

Botanic material See 581.8 Histology

Zoologic material 591.8
<table>
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<tr>
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<th>Topic</th>
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<td>Preparing skeletons</td>
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<td>Preservatives and hardening fluids</td>
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<td>Injections</td>
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<td>.4</td>
<td>Taxidermy</td>
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<td>.5</td>
<td>Mounting specimens</td>
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<td>.6</td>
<td>Collecting</td>
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<td>.6.11</td>
<td>Alluring; bait, light, etc.</td>
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<td>.6.12</td>
<td>Hunting; nets, collecting bottle, etc.</td>
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<td>.6.13</td>
<td>Killing</td>
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<td>.6.14</td>
<td>Exchange Purchase</td>
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<td>Transporting</td>
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<td>.7</td>
<td>Arrangement of specimens in museums</td>
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<td>.7.2</td>
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<td>Preservation of specimens</td>
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<td>.8.2</td>
<td>Pestifuges</td>
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<td>.8.3</td>
<td>Prevention of moisture</td>
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<td>.8.4</td>
<td>Retention of colors</td>
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</table>
Botany

580 Philosophy, classification, nomenclature
581 Compends
582 Dictionaries, cyclopedias
583 Essays
584 Periodicals
585.1 Societies
585.7 Study and teaching, herbariums, botanic gardens
588.8 Collectiv works
589.9 History

581 Physiologic and structural botany

Subdivided where wished like 591

.1 Physiology
.2 Pathology
.21 Teratology
.22 Diseases
.23 Parasites
.3 Embryology
.31 Germination
.4 Morphology
.41 Comparativ anatomy
.5 Habits
.6 Economic
.7 Organografy
.71 Descriptiv anatomy
.8 Histology
.81 See 578.3

.9 Geografic

Distribution of plants

Subdivide .93-99 like 930-999 Use .92 for ocean

This Geografic classification is to be used only for general works and cross references.

Flora of North America' is put 581.97; but 'North American cryptogams' is class 586 with a reference from 581.97, but North American phanerogams go with 581.97 because it so completely covers the subject.

General works covering both Phanerogamia and Cryptogamia are put under 580 as books covering Vertebrates and Invertebrates are put under 590.

In applying these numbers to Fossil plants, 561, note that one more figure must be used than in fossil animals. The Zoology numbers are already given in the 3d place in Paleontology, e.g. 592 Invertebrates, 562 Fossil invertebrates, and so on to 599 Mammals, and 569 Fossil mammals. But in Fossil plants, 561, all 8 sections are grouped together and the section number must be repeated. Fossil phanerogams are 561.2 not 562, which is assigned to Invertebrate zoology as more important.

Lichens are 561.91, etc. In the same way the Fossil flora of North America is 561.197, i.e. the first 2 Botany figures, 58, are changed to 561 to give the corresponding Fossil botany number, while in zoology the only change is from 59 to 56 for first 2 figures, except in 591 which can not change to 561, which is assigned to Botany. The Fossil fauna of North America must therefore go among general works under 560.97.

582 Phanerogamia

See also Trees 715

The subsections below are taken from the recognized authority, Bentham and Hooker's Genera plantarum

583 Dicotyledonæ

.1 Polypetalea

.11 Ranunculaceæ

.111 Dilleniaceæ

.112 Calycanthaceæ

.113 Magnoliaceæ

.114 Anonaceæ

.115 Menispermaceæ

.116 Berberideæ

.117 Nymphaeææ
Parietales
- 121 Sarraceniacae
- 122 Papaveraceae
- 123 Cruciferae
- 131 Capparideae
- 133 Resedaceae
- 134 Cistineae
- 135 Violaceae
- 137 Canellaceae
- 138 Bixineae
- 14 Polygalineae
- 141 Pittosporaceae
- 142 Tremandraceae
- 143 Polygaleae
- 145 Vochysiaceae
- 15 Caryophyllineae
- 151 Frankeniacae
- 152 Caryophylleeae
- 153 Sileneae
- 154 Alsinaceae
- 155 Polycarpaceae
- 156 Portulaceae
- 158 Tamariscineae
- 16 Guttiferales
- 161 Elatineeae
- 162 Hypericinaceae
- 163 Guttiferaceae
- 166 Ternstroemiaceae
- 167 Dipterocarpaceae
- 168 Chlaenaceae
- 17 Malvales Malvaceae
- 18 Sterculiaceae
- 19 Tiliaceae
- 20 Geraniales
- 211 Linneeae
- 213 Humiriaceae
- 214 Malpighiaceae
- 221 Zygophylleeae
- 223 Geraniaceae
- 23 Rutaceae
- 241 Simarubeeae
- 245 Ochnaceae
- 247 Burseraceae
- 251 Meliaceae
- 255 Chailletiaceae
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Gamopetalae

- Rubiales  Caprifoliaceae
  - Rubiaceae

- Asterales
  - Valerianaceae
  - Dipsaceae
  - Calyceraceae
  - Composite

- Campanales
  - Stylidiaceae
  - Goodeniaceae
  - Campanulaceae

- Ericales
  - Vaccinaceae
  - Ericaceae
  - Monotropaceae
  - Eparidaceae
  - Diapensiaceae
  - Lennoaceae

- Primulales
  - Plumbaginaceae
  - Primulaceae
  - Myrsinaceae

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  - Ebenaceae
  - Styraceae

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  - Gentianaceae

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  - Hydrophyllaceae
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  - Convolvulaceae
  - Solanaceae

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  - Scrophulariaceae
  - Orobancheaceae
  - Lentibulariaceae
  - Columelliaceae
  - Gesneraceae
  - Bignoniaceae
  - Pedaliaceae
  - Acanthaceae

- Lamiales
  - Myoporineae
  - Selaginaceae
  - Verbenaceae
  - Labiatae

- Ordo anomalous  Plantaginaceae
Apetalæ

Curvembryæ

Nyctagineæ

Illecebraceæ

Amarantaceæ

Chenopodiaceæ

Phytolaccaceæ

Batideæ

Polygonaceæ

Multiovulatae aquaticæ

Podostemaceæ

Multiovulatae terrestres

Neptunaceæ

Cytinaceæ

Aristolochiaceæ

Micrembrypeæ

Piperaceæ

Chloranthaceæ

Myristicææ

Monimiaceæ

Daphnales

Laurineæ

Proteaceæ

Thymelaceææ

Peneæaceæ

Eleagnaceæ

Achlamydosporææ

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Euphorbiaceææ

Balanoscææ

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Juglandææ

Myricaceææ

Casuarinææ

Cupuliferaæ

Anomali

Salicinææ

Lacistemaceææ

Empetraceææ

Ceratophyllææ
584 Monocotyledonæ

Microspermeæ
Hydrocharidææ
Burmanniaceæ
Orchidææ

Epigynææ
Scitamineæ
Bromeliaceæ
Haemodoraceæ
Irideæ
Amaryllideæ
Taccaceæ
Dioscoreaceæ

Coronariææ
Roxburiaceææ
Liliaceæ
Pontederiaceæ
Phylidaceæ
Xyridææ
Mayaceæ
Commelinaceæ
Rapateaceæ

Calyçineææ
Flagellariaceæ
Juncaceæ
Palmæ

Nudiflorææ
Pandanaceæ
Cyclanthaceæ
Typhaceæ
Aroideæ
Lemnaceæ

Apocarpeææ
Triurideæ
Alismaceæ
Naiadaceæ

Glumaceææ
Eriocaulaceæ
Centrolepidaceæ
Restiaceæ
Cyperaceæ
Gramineæ

585 Gymnospermeæ

Gnetaceæ
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Cycadaceæ

586 Cryptogamia

587 Pteridophyta

Isoetææ
Equisetææ
Filicinææ
Lycopodinææ
Bryophyta

.1 Sphagna
.2 Musci
.3 Hepaticæ
.4 Characeæ

Thallophyta

.1 Lichenes
.11 Basidiolichenes
.15 Ascolichenes
.16 Angiocarpaceæ
.17 Gymnocarpaceæ
.18 Gelatinoseæ
.19 Byssaceæ

.2 Fungi
.21 Carposporeæ
.22 Basidiomycetes
.221 Gasteromycetes
.222 Hymenomycetes
.224 Tremellaceæ
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.26 Saprolegniasææ
.27 Zygosporeææ
.28 Zygomycesææ
.29 Myxomycetesææ

.3 Algae
.4 Carposporeææ
.41 Florideææ
.47 Coleochaetaææ

.5 Oosporææ
.6 Zygosporeææ
.61 Conjugateææ
.67 Zoosporeææ

.7 Protophyta
.8 Chlorophytaææ

.9 Achorophytaææ
.91 Saccharomycetesæ Yeast
.95 Schizomycetesæ Bacteriaæ Microbesæ

See also 614.41 Origin of infectious diseases; 616.01 Germ theory of disease
Physiologic zoology

Physiology

1. Circulation
2. Respiration
121. Nature
122. Dermal
123. Aquivascular
125. Branchial
126. Tracheal
127. Pulmonary
129. Exhalation of aqueous vapor

13. Nutrition
131. Acquisition of food
132. Digestion of food
133. Assimilation of food
134. Growth
135. Development
136. Repair of waste
137. Production of organic material
138. Conditions of nutritive activity
139. Longevity, vitality

14. Secretion and excretion
141. Mucous and sebaceous
142. Sericeous
143. Digestive: salivary, gastric, pancreatic
144. Odoriferous, sweet, etc.
145. Poisonous, gall formation, caprification
146. Mammary, spermatic
147. Lacrimal
148. Biliary
149. Urinary and fecal

15. Variation
See also 575.2 Evolution
151. Polymorphic
152. Geografic
153. Heterofagic
154. Polyguneutic
155. Mimetic
156. Sexual
157. Colorational
158. Hybrids
159. Monstrosities
591.16 Generation
   161 Abiogenesis
   162 Parthenogenesis, neatners
   163 Metagenesis, pedogenesis, nurses
   165 Fission and gemmation
   166 Fecundation
   167 Hermaphrodites
   168 Vivipara
   169 Superfetation
   17 Histogenesis
   171 Development of sperm cells
   172 Development of germ cells, microple
   179 Reperation of wounds
   18 Nervous functions and sensation
   19 Physiologic chemistry

2 Pathology

3 Embryology
   33 Development of embryo
   34 Metamorphosis, larva, pupa, molting
   35 Hypermetamorphosis
   36 Production of sexes

See also 575.9 Origin of sexes

4 Morphology    Comparativ anatomy
   41 Circulatory organs
   42 Respiratory organs
   43 Nutritory organs
   44 Secretory and excretory organs

   45 Generator organs
   47 Motor organs
   48 Nervous system

   49 Integument     Dermoskeleton  Skeleton

5 Habits and behavior
   51 Instinct Reason
   52 Abode     Migration
   53 Food
   54 Seasons Hibernation
   55 Sociability
   56 Philoprogenitivness Breeding
   57 Means of protection Fascination

   58 Herd Instinct

   59 Other habits
591.6 Economic
.61 Usefulness
.62 In nature
.63 As food and medicin for man
.64 In chemistry and manufactures
.65 Noxiousness
.66 Offensiv animals
.67 Animals causing diseases [substances
.68 Injuring vegetable and animal products and inorganic
.69 Injuring living plants and animals Parasites

7 Organografía Descriptiv anatomy
Subdivided like 591.4 Morfology

8 Histology See also 578.0 Microscopic zoology

9 Geografic distribution of animals
Subdivide like 930-999, using .92 for ocean

592 Invertebrates

593 Protozoans Radiates

Protozoans
.11 Rhizopoda
.12 Foraminifera
.13 Heliozoa
.14 Radiolaria Polycystina
.15 Infusoria
.16 Flagellata
.17 Ciliata
.18
.19 Gregarinidae

Radiates
.2 Coelenterata Acalepha (old use of term, now limited to 593.73)
.4 Sponges Porifera Spongia
.5 Cnidaria
.6 Actinozoa Polyps Corals and sea anemones
.61 Rugosa Tetracorolla
.62 Alcyonaria Octocorolla
.63 Zoantharia Hexacorolla
.64 Antipatharia
.65 Actinaria
.66 Madreporaria

Hydrozoa
.71 Hydromedusæ
.72 Siphonophora
.73 Acalepha
.74 Calycozoa
.75 Marsupialida
.77 Discophora Jelly fish
.8 Ctenophora Jelly fish
Echinodermata
- Crinoidea, sea lilies
- Asteroidea, star fish
- Stelleridea
- Ophiuroida
- Echinoidea, sea urchins
- Holothuroidea, sea cucumbers
- Pedata
- Apoda
- Enteropneusta

Mollusks
- Lamellibranchiata Bivalvs
- Scaphopoda
- Gastropoda Univalvs: snails, slugs See also 632 Pests
- Pteropoda Winged shells
- Cephalopoda Squids and cuttlefish
- Molluscoidea
- Bryozoa (Polyzoa) Sea mats
- Brachiopoda Lamp shells
- Tunicata (Ascidia) Sea grapes

Articulates
- Worms Vermes See also 632 Pests
- Arthropoda
- Crustacea
- Entomopocra Cyclops, shrimps, etc.
- Phyllopoda
- Ostracoda
- Copepoda
- Cirripedia Barnacles, etc.
- Malacostraca Sandbugs, crabs, lobsters, etc.
- Arthrostraca
- Thoracostraca
- Gigantostraca Trilobites
- Arachnida Spiders Scorpions Mites See also 632 Pests
- Myriopoda: centipedes, etc. See also 632 Pests
- Insects Insecta Hexapoda See also 632 Pests
- Thysanura: bristletails, springtails, etc.
- Orthoptera: grasshoppers, etc.
- Psedoneuroptera: dragon-flies, white ants, etc.
- Neuroptera: caddis flies, etc.
- Rynchota: (hemiptera) bugs, etc.
- Coleoptera: beetles
- Diptera: flies, etc.
- Lepidoptera: butterflies, moths
- Hymenoptera: bees, wasps, etc.
Vertebrates

Fishes Pisces

1. Pharyngobranchii Lancelet
2. Marsipobranchii Lampreys
3. Elasmobranchii Sharks, rays, etc.
4. Ganoidei Sturgeons, garpike, etc.
5. Teleostei: true bony fishes
6. Batrachia (Amphibia)
7. Ophiomorpha
8. Anura Toads, frogs
9. Urodela Salamanders

Reptils Birds

Reptils

1. Lacertilia Lizards
1.1 Ophidia Snakes
1.3 Chelonia Turtles
1.4 Crocodilia Crocodiles
1.5 Ichthyopterygia
1.6 Sauropterygia
1.7 Anomodontia
1.8 Pterosauria
1.9 Dinosauria

Birds Aves

2. Grallatores, waders
3. Natatores, swimmers
4. Cursores, runners
5. Rasores, scratchers
6. Scansores, climbers
7. Insessores, perchers
8. Raptores, birds of prey

Mammals Mammalia

1. Monotremata Duckbill platypus
2. Marsupialia Kangaroos, opossums
3. Edentata Rodentia Insectivora Sloths Rodents Moles
4. Cheiroptera Bats
5. Cetacea Sirenia Whales, etc.
6. Proboscidea Hyracoidea Elephants Hyrax
7. Ungulata Carnivora Domestic mammals See also 636
8. Quadrumanana Apes
9. Bimana Man See also 573 Nat. hist. of man; 610 Medicin
### Useful Arts

<table>
<thead>
<tr>
<th>600</th>
<th><strong>Useful arts</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>601</td>
<td>Philosophy, Theories, etc.</td>
</tr>
<tr>
<td>602</td>
<td>Compendes, outlines</td>
</tr>
<tr>
<td>603</td>
<td>Dictionaries, cyclopedias</td>
</tr>
<tr>
<td>604</td>
<td>Essays, lectures, addresses</td>
</tr>
<tr>
<td>605</td>
<td>Periodicals, magazines, reviews</td>
</tr>
<tr>
<td>606</td>
<td>Societies, Fairs, Exhibitions</td>
</tr>
<tr>
<td></td>
<td>Special exhibitions go with their topics. This is general only</td>
</tr>
<tr>
<td>607</td>
<td>Education, Schools of technology</td>
</tr>
<tr>
<td></td>
<td>Divided like 940-99</td>
</tr>
<tr>
<td>608</td>
<td>Patents, Inventions</td>
</tr>
<tr>
<td>609</td>
<td>History of useful arts in general</td>
</tr>
<tr>
<td></td>
<td>For its history, see each special department</td>
</tr>
</tbody>
</table>
610 Medicin
610.1 Philosophy, theories 2. Compends 3 Dictionaries, cyclopedias 4 Essays
5 Periodicals 6 Societies 7 Study and teaching 71 Medical schools; divided like 940-999 72 Medical education of women 73 Training schools for nurses 77 Medical museums 8 Collections 9 History of medicin

611 Anatomy

See also 591.4 Comparativ anatomy; 591.8 Zoologic histology

SUMMARY

611.01 Theory
  .012 Teratology
  .013 Embryology
  .014 Anthropologic anatomy
  .016 Paleontologic
  .018 Histology
  .019 Comparativ anatomy
  .1 Circulatory system
  .2 Respiratory
  .3 Digestive
  .4 Glandular and lymphatic system
  .6 Genito-urinary system
  .7 Motor and integumentary system
  .8 Nervous system
  .9 Regional anatomy

Theory
  Notion, definition, value
  Classification, division
  Terminology

.012 Teratology  Anomalies
  To be subdivided like revised 617.3 Orthopedic surgery

.013 Embryology
  See also physiology, 612.6 Reproduction and development
  Germinativ cells
  Sperm
  Spermatogenesis  See also 611.63 Male genital organs
  Ovum
  Ovogenesis  See also 611.65 Female genital organs
  Maturation  Corpus luteum
  Copulation  Fecundation  Fertilization
  See also Fecundation, in botany 581.166; in zoology 591.3

Germ layers
  Segmentation  Cleavage  Blastula
  Blastula
  Gastrula
  Primitiv streak
  Blastopore  Primitiv mouth
  Archenteron  Primitiv gut
  Neurenteric canal
  Entoderm, entoblast, hypoblast or endoderm
  Ectoderm, epiblast or ectoblast
  Mesoderm or mesoblast
  Mesenchyme
  Entodermic, entoblastic or hypoblastic organs
  Notochord
  Ectodermic, epiblastic or ectoblastic organs
  Epidermal layer
  Neural furrows, folds and canal or medullary plates
  See also 611.8 Nervous system
### 611.0136 Mesodermic organs

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>61</td>
<td>Protovertebrae Mesoblastic somites, or primitiv vertebrae</td>
</tr>
</tbody>
</table>
| 64   | Somatopleure, body wall, or musculocutaneous plate  
       | Outer lamella of lateral plates |
| 65   | Splanchnopleure, fibrous wall of alimentary canal, or gut fiber plate  
       | Inner lamella of lateral plates |
| 66   | Coelom, pleuroperitoneal or body cavity  
       | See also 611.389 Coelom |
| 68   | Blood or primitiv vessel wall  
       | See also 611.0185 Histology of blood |

### 7 External form of embryo

- Fetal appendages
- Vitellin sac
- Allantois
- Amnion
- Amniotic fluid
- Chorion
- Placenta, Umbilic cord

### Experimental embryology

#### 014 Anthropologic anatomy

See also 572 Anthropology

#### 016 Paleontologic anatomy

See also 560 Paleontology

#### 018 Histology

Microscopic structure of organs

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1    | Cells  
       | Cytology  
       | See also 576.3 Cytology  
       | For special cells see tissues to which they belong |
| 11   | Protoplasm |
| 13   | Nucleus |
| 15   | Cell division  
       | See also 611.0131 |
| 16   | Centrosome |
| 18   | Cilia, Cellular membrane |
| 2    | Connectiv tissue  
       | Connectiv, cartilage and bone tissue together known as 'supporting tissues' |
| 21   | Connectiv tissue cells |
| 22   | Connectiv tissue fibers |
| 23   | Ground substance or matrix |
| 24   | Reticular and adenoid tissue  
       | Areolar or interstitial tissue  
       | Reticulum |
| 25   | Muscos or gelatinous tissue, Mesenchyme  
       | See also embryology, 611.01395 Mesenchyme |
| 26   | Adipose or fat tissue |
| 27   | Elastic or yellow fibrous tissue |
| 28   | Fibrous or white fibrous tissue |
| 29   | Pigment and pigment cells |

### Cartilaginous tissue

True or hyalin cartilage, cartilage cells or chondroblasts. For Elastic, yellow fibrocartilage, or reticular cartilage see 611.01827; for Fibrocartilage, fibrous or white fibrocartilage see 611.01828

Perichondrium
Bone or osseous tissue

Bone cells
Osteoblasts Osteoclasts Howship's lacunae Myeloplaques of Robin

Ground substance or matrix
Spongiosum, spongy substance, or cancellated or spongy bone
Compact substance
Structure: lacunae, canaliculi, lamellae, Haversian canals
Volkmann's canals

Periosteum
Osteogenetic layer or cells; fibers of Sharpey

Bone marrow or medulla

Blood
See also physiology, 612.11 Blood
For sperm, see 611.01311 and 612.616

Lymph
See also 612.42 Lymphatic system

Muscular tissue Sarcoplasm
Smooth, unstriped, unstriated or involuntary muscle
Striped, striated or voluntary muscle
Sarcolemma

Cardiac muscle
Histology of muscular contraction

Epithelial tissue

Glandular system

Mucous membranes

Serous Endothelia

Nervous tissue

General structure Tectology Neurone
Regeneration

Nerv cells

Prolongations and nerve fibers
Cylinder-axis process; cylinder axis. Appendices, varicosities
Neurilemma Schwann's sheath
Myelin Ranvier's nodes Medullary sheath
Adventitious sheath, perineurium Epineurium
Endoneurium
Dendrites
Neuroglia Ependymal cells, amyloids

Terminations
Motor terminations
Sensory

Comparison with anatomy of lower animals
Usually better clas in 591.4

Form divisions

Compends
Dictionaries Cyclopedias
Essays Addresses
Periodicals
Societies Clubs
Circulatory system

Pericardium

Hart

Left heart

Right heart

Ventricles

2 Right  5 Left

Auricles

2 Right  5 Left

Endocardium

Valves

Auriculoventricular valves
Mitrval or bicuspid valves
Tricuspid valves
Valve of aorta and of pulmonary artery
Sinuses of Valsalva
Aortic valves
Pulmonary or semilunar valves
Valve of right auricle

Eustachian  5 Coronary

Myocardium

Arteries

Pulmonary artery

2 Right branch  5 Left branch

Aorta

Aortic arch  Ascending aorta
Coronary arteries

2 Right  5 Left

Innominate artery

Carotid arteries

Common carotid

External

Superior thyroid
Lingual
Facial, or external maxillary
Ascending pharyngeal
Posterior auricular
Occipital
Superficial temporal
Internal maxillary
Sphenopalatine arteries
Middle or great meningeal

Internal carotid

Ophthalmic artery

Cerebral arteries, anterior and middle

For posterior cerebral artery see 611.1340
Subclavian arteries

1 Axillary
Superior thoracic, acromiothoracic, long thoracic or external mammary, alar thoracic, subscapular, posterior and anterior circumflex

2 Brachial or humeral
Superior and inferior orofunda, nutrient, anastomotica magna muscular

Forearm arteries

3 Radial

35 Ulnar

4 Hand arteries
Internal mammary
Costocervical trunk
Thyrocervical trunk
Posterior, or dorsal scapular, transversa collis

8 Vertebral
Basilar, posterior cerebral, circle of Willis

Thoracic aorta and branches

1 Parietal branches

4 Intercostal
Subcostal, diafragmatic, vas aberrans

Visceral branches
Bronchial, esophageal, pericardial, mediastinal

Abdominal aorta and branches

1 Inferior phrenic

2 Lumbar

3 Middle sacral; caudal

4 Celiac axis
Celiac mesenteric, umbilical mesenteric or omphalomesenterica
Hepatic
Pyloric, gastroduodenal, superior pancreaticoduodenal, right gastro-epiploic, cystic
Splenic, lienalis
Pancreatic, vasa brevia, left gastro-epiploic
Left gastric, gastric, or coronary gastric

Mesenteric
Superior mesenteric
Rami intestini tenuis, or branches of small intestine; inferior pancreaticoduodenal; middle, right and ileocolic; terminal and appendicular branches

Inferior mesenteric
Left colic, sigmoid, superior hemorrhoidal

6 Middle suprarenal

7 Renal

8 Spermatic

9 Ovarian

Iliac arteries

1 Common iliac

2 Hypogastric, or internal iliac

3 Parietal branches

4 Lateral sacral

5 Obturator
<table>
<thead>
<tr>
<th>611.137</th>
<th>6</th>
<th>Gluteal</th>
</tr>
</thead>
<tbody>
<tr>
<td>61</td>
<td>Superior gluteal</td>
<td></td>
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<tr>
<td>65</td>
<td>Inferior gluteal Sciatic</td>
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<tr>
<td>7</td>
<td>Visceral branches</td>
<td></td>
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<tr>
<td>71</td>
<td>Umbilic, superior vesical</td>
<td></td>
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<tr>
<td>72</td>
<td>Inferior vesical and deferential</td>
<td></td>
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<tr>
<td>73</td>
<td>Uterin and vaginal</td>
<td></td>
</tr>
<tr>
<td>74</td>
<td>Middle hemorrhoidal</td>
<td></td>
</tr>
<tr>
<td>75</td>
<td>Internal pudic</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>External iliac artery</td>
<td></td>
</tr>
<tr>
<td>81</td>
<td>Inferior epigastric, or deep epigastric</td>
<td></td>
</tr>
<tr>
<td>82</td>
<td>Deep circumflex iliac</td>
<td></td>
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<tr>
<td>83</td>
<td>Femoral</td>
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<td>84</td>
<td>Deep femoral, profunda femoris</td>
<td></td>
</tr>
<tr>
<td>85</td>
<td>Arteria genu suprema, or anastomotica magna</td>
<td></td>
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<tr>
<td>86</td>
<td>Popliteal</td>
<td></td>
</tr>
<tr>
<td>87</td>
<td>Anterior tibial</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Tibiofibular trunk, truncus tibioperoneus</td>
<td></td>
</tr>
<tr>
<td>91</td>
<td>Posterior tibial</td>
<td></td>
</tr>
<tr>
<td>92</td>
<td>Peroneal</td>
<td></td>
</tr>
<tr>
<td>93</td>
<td>Arteries of foot</td>
<td></td>
</tr>
<tr>
<td>94</td>
<td>Dorsalis pedis</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tarsal, metatarsal, dorsal intersosseous, dorsalis tali pedis</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Plantar</td>
<td></td>
</tr>
</tbody>
</table>

### I4 Veins

#### I41 Pulmonary

#### I42 Cardiac or venae cordis

#### I43 Subintestinal, or fetal portal vein

#### I44 Cardinal

#### I45 Superior vena cava

Innominate veins Veins of neck

<table>
<thead>
<tr>
<th>1</th>
<th>Internal jugular vein</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Thyroid veins</td>
</tr>
<tr>
<td></td>
<td>Cerebral veins Sinuses of dura mater</td>
</tr>
<tr>
<td>11</td>
<td>Emissary vein</td>
</tr>
<tr>
<td>15</td>
<td>Superior ophthalmic</td>
</tr>
<tr>
<td>16</td>
<td>Inferior</td>
</tr>
<tr>
<td>17</td>
<td>Facial</td>
</tr>
<tr>
<td>2</td>
<td>External jugular</td>
</tr>
<tr>
<td>3</td>
<td>Posterior external jugular and vertebral</td>
</tr>
<tr>
<td>4</td>
<td>Subclavian and axillary</td>
</tr>
<tr>
<td>41</td>
<td>Deep veins of upper extremity</td>
</tr>
<tr>
<td>46</td>
<td>Superficial veins of upper extremity</td>
</tr>
<tr>
<td>6</td>
<td>Basilic Cephalic</td>
</tr>
<tr>
<td>7</td>
<td>Azygos</td>
</tr>
<tr>
<td>7</td>
<td>Spinal veins</td>
</tr>
</tbody>
</table>
611.146 Inferior vena cava

1 Lumbar veins
2 Renal "
3 Suprarenal "
4 Hepatic "
5 Inferior phrenic
6 Spermatic
   Pampiniform or spermatic plexus
7 Ovarian

.147 Iliac veins
1 Hypogastric or internal iliac
   Hemorrhoidal plexus
2 External iliac
3 Femoral Popliteal
   Long, or internal saphenous
37 Tibial veins
38 Short, or external saphenous
39 Veins of foot

.149 Portal vein
1 Superior mesenteric
2 Inferior "
3 Ventricular coronary, gastric, or venae gastricae Pyloric
4 Splenic, or lienalis
5 Cystic
7 Fetal hepatic veins Omphalomesenteric
   Ductus venosus Aranzii, or sinus venosus, large vein passing directly thru fetal liver

.15 Umbilic

.2 Respiratory system

.21 Nose
   See also 611.86 Organs of smell

.211 External nose

.22 Larynx

.221 Cartilages
   Epiglottis, thyroid, arytenoid, cuneiform, cornicular
   False vocal cords
   Ventricles

.225 Cavity of larynx Glottis
   True vocal cords Rima glottidis or chink of glottis
   Ligaments

.229 Muscles of larynx

.23 Trachea and bronchi

.231 Trachea

.233 Bronchi
   See also 611.24 below

.24 Lungs, or pulmones

.25 Pleura

.26 Diafram

.27 Mediastinum

.28 Gills
   See comparative anatomy, 591.42 Respiratory organs

.29 Other organs, including air bladder, swimming bladder
   See 591.42
Digestive system

Mouth, buccal cavity or cavum oris

- Tung
  - Papillae

- Teeth

- Palate, palatum, or roof of mouth
  - Soft palate, or velum pendulum palati
  - Uvula

Salivary and other glands of mouth

- Submaxillary and sublingual glands
- Parotid glands
- Stenson's duct

- Lips

- Cheeks

Pharynx

- Esophagus

Tonsils

- Pharyngeal or Luschka's tonsils
- Lingual, buccal or 4th tonsil
- Other tonsils: laryngeal, nasal

Topography or regions of pharynx

- Nasal or epiopharynx
- Oral, buccal, or meso pharynx
- Laryngeal or hypo pharynx
- Back
- Sides

Esophagus

1. Cervical
2. Thoracic section
3. Abdominal section, including diaphragmatic

Stomach

- Gastric glands: true, oxyntic or peptic; pyloric; cardiac
- Cardia
- Pylorus
- Greater curvature, or lower convex surface
- Lesser curvature, or upper concave surface

Intestin

Small intestine

2. Meckel's diverticulum
3. Peyer's patches, or tonsillae intestinales
4. Plicae circulares
5. Glands of Lieberkühn and solitary glands

Duodenum
- Brunner's glands
- Jejunum
- Ileum

Cecum

1. Ileocecal valv
2. Vermiform appendix

Large intestine

Including cecum
- Appendices epiplonae

Colon

2. Ascending
3. Transverse
4. Descending

Sigmoid flexure

Rectum

- Anus
- Houston's or rectal valves

Anus
- Perineum

See also 611.96
Liver

- **Bile ducts**
- **Bile capillaries or canaliculi**
- **Hepatic duct**
- **Cystic duct**
- **Gall bladder**
- **Common bile duct, or ductus communis choledicus**
- **Process and ampulla of Vater**

Pancreas

- **Pancreatic duct, or canal of Wirsung**
- **Duct of Santorini**
- **Glandular portion**
- **Interalveolar cell-lets, intertubular cell masses, islands of Langerhans**

Peritoneum Mesentery Omentum Coelom

Peritoneum

- 2 Parietal
- 5 Visceral
- Omentum, epiploon
- Lesser or gastrohepatic, great or gastrocolic, gastrosplenic
- Mesentery
- Transverse and sigmoid mesocolon; mesopectum; mesoappendix
- Retroperitoneal fossae
- Coelom or pleuroperitoneal cavity

Adipose bodies

Glandular and lymphatic system

Put glands of any special system with that system. See 611.36, Liver; 611.61, Kidneys; 611.316, Salivary glands; 611.69, Mammary glands. But class here chromaffin tissue in general

Spleen

- Malpighian bodies
- Capsule of spleen

Lymphatic vessels or lymphatics and capillaries

For lymphatics of an organ or tissue, see name of organ or tissue

Lymphatic spaces

Lymphatics by region

- Head
- Face
- Neck
- Thorax
- Abdomen
- Pelvic region
- Upper extremity
- 2 Arm 4 Forearm 6 Hand
- Lower extremity
- 2 Thigh 4 Leg 6 Foot
- Tail
- Receptaculum chyli or cistern of Pecquet

Thoracic duct (left)

Right lymphatic duct

Lacteals

5 Villi

Thymus

- Accessory thymus

Thyroid gland

- Accessory or aberrant thyroids

Parathyroids

Suprarenal capsules or bodies

Lacteals

5 Villi
Lymphatic glands

Glands of head
- Face
  - Internal maxillary
  - Submental

Glands of neck
- Suboccipital or occipital
- Mastoid, retroauricular or postauricular
- Retropharyngeal
- Cervical or jugular
- Subclavian

Glands of thorax
- Diaphragmatic
- Mammary lymph
- Intercostal
- Mediastinal

Abdominal lymph glands
- Iliac and hypogastric: sacral, lumbar
- Abdomino-aortic
  - Juxta-aortic
  - Preaortic: gastric, splenic, hepatic
  - Retroaortic
- Glands of small intestine: mesenteric
- Glands of large intestine: colic, rectal

Lymph glands of upper extremity
- Axillary
- Epitrochleal or supratrochleal and other glands
- Pectoral

Lymph glands of lower extremity
- Inguinal
- Femoral
- Popliteal
- Anterior tibial

Carotid gland or body

Coccygeal gland

Genito-urinary system

Brests

Kidneys
- Class here urinary organs in general
  - Uniferous tubules

Ureter

Pronephros

Mesonephros

Bladder

Urethra

Bladder

- 3 Urethral openings

Ligaments: urachus

For pedicle of allantois see also embryology, 611.01383

Urethra

For female urethra see 611.574

- 1 Prostatic part
  - Verumontanum or caput gallinaginis
  - Sinus pocularis or uterus masculinus
- 2 Membranous part
- 3 Spongy, cavernous or penial part
- 4 Lacunae
- Bulbo-urethral or Cowper's glands

Urogenital sinus
Male genital organs

Testicles or testes
1. Seminiferous tubules
   Straight tubules, tubuli recti or vasa recta; coni vasculosoi or vasa efferentia
2. Tunics of testes; vaginalis, albuginea, vasculosa
3. Mediastinum testis or Highmore's body; rete testis of Haller or Haller's network

Epididymis
Appendixes of testes
Vasa aberrantia; hydatids of Morgagni, or pedunculated bodies; paradidymis or organ of Giraldes

Vas deferens
Ejaculatory ducts
Seminal vesicles
Prostate
Scrotum
Dartos
Spermatic cord
Infundibula; intercolumnar or spermatic and cremasteric fascia

Penis

Root
Body
Prepuce
Glans penis, or acorn
Meatus
Corpora cavernosa
Corpus spongiosum
Bulb of urethra

Female genital organs

Adnexa

Ovaries
1. Medullary substance
   Stroma
2. Graafian follicles
   Capsule of ovum, membrana granulosa, discus proligerus
3. Cortical layer
   Corpus luteum or corpora lutea
   See also embryology 611.01317

Fallopian tubes

Uterus

Endometrium
Cornu
Body or parenchyma
Neck, cervix
Ligaments
For placenta see embryology, 611.01385 and gynecology 618.36
   2. Broad or lateral
   3. Round
   4. Uterosacral and uterolumbar
   Pouch of Douglas
   Posterior ligaments
6. Epoophoron, parovarium, or organ of Rosenmüller
   Gärtner's duct
7. Paroophoron

Müller's duct
Oviducts of lower vertebrates
Class oviducts of lower vertebrates in 591.46 except in comparison with human organs

Vagina

Vulva

Nipple and areola
Glands of Montgomery
Acini, acinous glands
Galactophorous or lactiferous ducts
Motor and integumentary systems

Osteology

Bones

Skeleton

Spinal column

1. Cervical vertebrae
   2. Atlas
   3. Axis or epistropheus
   4. Thoracic or dorsal vertebrae
   5. Lumbar vertebrae
   6. Sacrum or sacral vertebrae
   7. Coccyx

Ribs

Thorax

Costal cartilages

Sternum or breast bone

Menubrium; gladiolus; zyphoid or ensiform

Bones of head

Skull

1. Calvaria or cerebral cranium
   2. Sutures, fontanelles, supernumerary or Wormian bones
   3. Base of cranium
   4. Orbits
   5. Nasal cavity
   6. Inferior conchae

Cranium, cranial bones

1. Occipital
   2. Sphenoid
   3. Temporal
   4. Parietal
   5. Frontal
   6. Ethmoid
   7. Lacrimal
   8. Nasal
   9. Vomer

Bones of face or visceral cranium

1. Maxillary, upper jaw or superior maxillary
   2. Palate
   3. Malar or sygomatic
   4. Mandible, lower jaw or inferior maxillary
   41. Alveolar limbus
   42. Ramus of mandible
   5. Hyoid

6. Skeleton branchiae

Better class in 591.4

Bones of upper extremity

1. Scapula, shoulder blade
   Shoulder girdle as a whole
   Acromion

2. Clavicle or collar bone

3. Coracoid process

4. Humerus

5. Radius

6. Ulna

7. Carpus, carpal bones or wrist bones

71. Scaphoid or navicular

72. Semilunar, or os lunatum

73. Cuneiform, or os triquetrum

74. Pisiform

75. Trapezium, or os multangulum majus

76. Trapezoid or “ minus

77. Os magnum, or os capitatum

78. Unciform or hook or os hamatum

79. Central

8. Metacarpus, metacarpal bones

9. Phalanges of hand

91. Basilar or proximal phalanges

92. Middle phalanges

93. Ungual or distal phalanges

99. Sesamoid
Bones of lower extremity

For pelvis see 611.96

1 Hip bone, or os coxae or innominatum
   Acetabulum or cotyloid cavity

11 Ilium
12 Ischium
13 Pubis

4 Femur
45 Patella  See also 611.7283 Knee joint and 611.983 Knee

5 Tibia
6 Fibula

7 Tarsus
71 Astragalus, ankle bone, or talus
73 Calcaneum, heel, or os calcis
75 Cuboid
76 Scaphoid or navicular
78 Cuneiform or wedge bones
   Internal or first, middle or second, external or third cuneiform

8 Metatarsal bones

9 Phalanges of foot
91 Basilar or proximal phalanges
93 Middle or second
95 Ungual or third
99 Sesamoid bones

.72 Ligaments  Joints

.721 Articulations of vertebrae and of cranium

1 Occipito-atlantal and occipito-axial
3 Intervertebral articulations
5 Atlanto-axial or atlo-axoid and atlanto-odontoid
6 Lumbosacral
7 Sacrococcygeal
   Coccygeal

.722 Costovertebral articulations

.723 Costosternal, costochondral, chondrosternal, interchondral, intersternal

.724 Jaw joint, temporomandibular, temporomaxillary or mandible joint

.727 Articulations of upper extremity

1 Sternoclavicular joint and costoclavicular or rhomboidal ligament

2 Articulations of shoulder
21 Shoulder joint
24 Acromioclavicular or scapuloclavicular joint  Coracoclavicular and coracoacromial ligaments

3 Elbow joint
31 Humeroulnar joint
33 Humeroradial joint
34 Superior radioulnar or radioulnaris proximalis

4 Wrist joint
41 Inferior or distal radioulnar joint
44 Radiocarpal

5 Intercarpal articulation
54 Middle carpal joints
6 Carpometacarpal articulations
7 Intermetacarpal
8 Metacarpophalangeal
9 Phalangeal or finger joints
Articulations of lower extremity

1 Articulations of pelvis
- Sacroiliac and pubic, or symphysis ossium pubis; sacrosciatic ligament or symphysis sacrococcygea
2 Hip joint, or articulo coxae
- Iliofemoral, Y or Bigelow's ligament: ligamentum teres

Knee joint
3 Crucial or femorotibial ligaments
31 Semilunar fibrocartilages
33 Anterior or ligamentum patellae
38 Tibiofibular ligaments

Ankle joint
4 Inferior tibiofibular joint
44 Tibiotalar ligaments

Intertarsal ligaments
5 Astragalocalcaneal, calcaneoastragaloid or talocalcaneum; astragalocalcaneal, calcaneocuboid; calcaneolunate or calcaneovocal ligaments
53 Calcaneocuboid ligaments
54 Mediotarsal articulations
55 Cuboidcuneiform
56 Scaphoidcuneiform or cubonavicular, scaphoidcuneiform or cuneonavicular articulations
58 Intermetatarsal articulations

Tarsometatarsal articulations
6 Intermetatarsal
8 Metatarsophalangeal
9 Toe joints

Classes of joints
2 Synarthrosis or fixt joint
4 Amphiarthrosis or mixt joint
6 Diarthrosis or movable joint
61 Arthrodia or gliding joint
62 Condylarthrosis or knuckle joint
63 Enarthrosis or ball and socket joint
64 Ginglymus or hinge joint
65 Trochoid or pivot joint

Muscular system

Dorsal muscles
1 Spinohumeral or humerospinal muscles
- Trapesius
- Latissimus dorsi
- Rhomboid
- Levator scapulae
2 Spinocostal or serrati posteriores
3 Spinodorsal
- Sacrospinalis, lumbosacral, erector spinae, transversalis cervicis
- Iliocostalis
- Longissimus dorsi
4 Spinalis dorsi
5 Transversospinales
- Semispinalis
6 Multifidus
- Rotatores
7 Breves spinae
8 Semispinalis
9 Recti capitis posterior and lateralis
Muscles of head
See also 611.7318–9 and 611.7337–8
1 Platysma myoides
2 Occipitofrontalis or epicranial

Muscles of nose
Pyramidalis nasj, compressor nasj, compressor narium minor,
depressor alae nasj or myrtiform, dilatores nasj

Muscles of ear
Attrahens, attollens, retrahens

Palpebral and orbital muscles of eye
Orbicularis palpebrarum, or sphincter of eyelids; corrugator supercilii;
levator palpebrae; levator palpebrae superioris; tensor tarsi
See also 611.8461

Buccal muscles
Buccinator, orbicularis oris, levator anguli oris, levatores labii
superioris, levator labii superioris alaque nasi, zygomatic, levator
labii inferioris, levator menti, depressor labii inferiorior or quadratus
menti; depressor angulae oris or triangularis menti; risorius, or
Santorini’s muscle

Muscles aiding mastication and deglutition

Muscles of neck
Sternocleido-mastoid
" hyoid
Omothoid
Sternothyroid
Thyrohyoid
Longus colli
Rectus capitis anticus major, or longus capitis
Rectus capitis anticus minor, or rectus capitis anterior
For rectus capitis lateralis see 611.7319
Scalen: anticus, medius and posticus

Hyoid muscles
Depressors of lower jaw or elevators of hyoid. For ting see 611.313
Digastric
Stylohyoid
Mylohyoid
Geniohyoid

Thoracic muscles
Pectoralis major
" minor
Subclavus
Levatores costarum
Serratus magnus or serratus anterior
Intercostal
Subcostal
Transversus thoracis or triangularis sterni

Abdominal and coccygeal muscles
Rectus abdominis
Pyramidalis abdominis
Oblique abdominal
Cremaster
Transversalis or transversus abdominis
Quadratus lumborum
Coccygeal
611.737

Muscules of upper extremity
Shoulder or axillary
1 Deltoid
11 Supraspinatus
12 Infraspinatus
13 Teres minor
14 Teres major
15 Subscapular
2 Arm
21 Biceps brachii, or biceps flexor cubiti
22 Coracobrachialis
23 Brachialis (anticus)
24 Triceps brachii, or triceps extensor cubiti
25 Anconeus
3 Forearm
4 Pronator muscles
41 Pronator radii teres
44 " quadratus
5 Flexors of forearm
51 Flexor carpi radialis
52 Palmaris longus
53 Flexor carpi ulnaris
54 " digitorum sublimis
55 " " profundus
56 " pollicis longus
6 Extensors and supinators
61 Brachioradialis
62 Extensor carpi radialis longus
63 " " brevis
64 " ulnaris
65 Extensors of fingers, or extensores digitorum
66 Supinator
67 Abductor pollicis longus
68 Short and long extensors of thumb, or extensores pollicis brevis et longus
69 Extensor of index finger, or extensor indicis proprius
7 Muscles of hand
71 Lumbricales
72 Palmaris brevis
73 Short abductor of thumb, or opponens pollicis
74 Short flexor of thumb, or flexor brevis pollicis
75 Adductor pollicis
76 Muscles of little finger
77 Abductor digiti quinti (or minimi) brevis; opponens digiti quinti; short flexor of 5th or little finger, or flexor brevis digitii minimi
79 Interosseous muscles

.738

Muscules of lower extremity
Hip and nates
1 Iliopsoas
11 Iliacus
12 Psoas major and minor
13 Gluteal
14 Tensor fasciae latae, tensor fasciae femoris or tensor vaginae femoris
15 Piriformis
16 Obturator internus
17 Gemelli or gemini
18 Quadratus femoris
Thigh muscles

21 Sartorius
22 Quadriceps femoris or quadriceps extensor femoris
   Rectus femoris, vastus externus, vastus internus and crureus or
   vastus intermedius
225 Articularis genu, or subcrureus
23 Pectineus
24 Adductors: longus, brevis, magnus and minimus
25 Gracilis
26 Obturator externus
27 Biceps femoris or biceps flexor cruris
28 Semitendinosus
29 Semimembranosus

Leg

3 Anterior muscles
4 Anterior tibial or tibialis anticus
41 Extensor digitorum longus
42 " hallucis " or proprius
40 Peroneus tertius

5 Other muscles of leg
51 Peroneus longus
52 " brevis
53 Gastrocnemius
54 Soleus, triceps surae
55 Plantaris
56 Popliteus
57 Posterior tibial
58 Flexor digitorum longus
59 " hallucis "

Muscles of foot

7 Back of foot
8 Extensor brevis digitorum
   Sole of foot or plantar region
   Adductor hallucis (obliquus and transversus), adductor digitii
   minimi, abductor hallucis; flexor hallucis brevis, flexor
   digitorum brevis, flexor accessorius, flexor digitii minimi
   brevis, lumbricales, interosseous muscles

.739 Electric organs  Better class in comparativ anatomy

.74 Tendons  Fasciae
.75 Bursae  Sheaths of tendons
.77 Skin  Glands of skin

.771 Cuticle, scarf skin or epidermis
.772 Horn and Malpighian layers
.773 Glands of skin
.774 Sebaceous
.775 Sudoriferous or sweat
.776 Ciliary glands
.777 Circumanal "
.778 Ceruminous "
.779 Corium, cutis vera, true skin or dermis
   Reticular and papillary layers
   Pigmentation
   Subcutaneous areolar tissue, tela subcutanea or paniculus adiposus

.751 Hed
.752 Neck
.753 Back
.754 Shoulder
.757 Upper extremity
.758 Lower

.76 Connectiv tissue  See also 611.0182 Histology of connectiv tissue

.77 Connectiv tissue  See also 611.0182 Histology of connectiv tissue
Hair, nails, scales, fethers, etc.

For teeth see 611.314 Fur, scales, fethers, horns, etc. better cast in
comparative anatomy

Hair
Scales
Nails
Fethers
Horns

Nervous system

Sense organs

Encephalon

Brain

General structure of brain and cerebrospinal axis

Localizations

Telencephalon, or endbrain

Prosencephalon, or forebrain

Hemispheres

Longitudinal and transverse fissure

Pallium, brain mantle or cerebral cortex

Frontal lobe

Broca's convolutions

Parietal lobe

Central fissure, sulcus centralis, or Rolando's groove

Opercula insulae

Temporal or temporoparietal lobe

Fissure of Sylvius, or fissura cerebri lateralis

Limbic lobe

Gyrus fornicatus

Hippocampal gyrus, or gyrus hippocampi

Callosal gyrus

Dentate gyrus, or fascia dentata hippocampi

Pars cinguli, or anteriors cinguli hippocampi

Hippocampus

major or cornu ammonis

Dentate fissure, hippocampal sulcus, or subiculum cornu ammonis

Callosomarginal fissure

Amygdala, almond nucleus, or amygdaloid tubercle

Occipital lobe

Occipital or parieto-occipital fissure

Paracentral gyrus or lobule

Cuneus

Calcinar fissure

Precuneus, or quadrato lobe

Insula, island of Reil, central lobe, or gyri operi

Striatum, striate body, or corpus striatum

Basal ganglion of hemisphere

Caudatum, tail nucleus, or nucleus caudatus

Lenticula, lenticular nucleus, or nucleus lentiformis

Globus pallidus, or pallidum, and putamen

Claustrum

Tenia, taenia semicircularis, stria terminalis or corneae

Rhinecephalon or rhinencephal

Olfactory bulb tract, substantia perforata anterior, precribrum, etc.

Broca's area, or parolfactoria

Centrum ovale majus (of Vieussens) Centrum

semiovale Internal capsule

Paraceles or lateral ventricles

Callosum or corpus callosum Fornix

Septum pellucidum or lucidum, or septum cavum septi pellucidi, 5th ventricle or pseudocele
Diencephalon, diencefal, thalamencephalon or interbrain

1 Hypothalamus or subthalamic tegmental region
   Nucleus of Luys or nucleus hypothalamicus
   Postcommissure or posterior commissure

2 Corpora albicantia, albicans, or corpus mammillare
   Bundle of Vicq-d'Azyn, or fasciculus thalamomammillaris

3 Hypophysis
   Hypophysi cerebri, pituitary body or somatic brain
   Tuber or tuber cinereum Infundibulum

4 Optic tract Optic chiasm or commissure

5 Epithalamus Pineal, pineal body, conarium or epis- 
   physe Habenula, habena, or pedunculus conarii

6 Geniculate bodies, or geniculum Metathalamus

7 Thalamus or optic thalamus
   Thalamic radiation: ansa peduncularis, ansa lenticularis
   For Nissl's bodies see 611.01882

8 Third ventricle, or diacele
   Porta or foramen of Monro, or foramen interventriculare

Mesencephalon, midbrain or mesencefal

3 Quadrigeminum
   Corpora or tubercula quadrigemina Quadrigeminal arms

4 Pedunculi or crura cerebri, crura or crus
   Substantia nigra (Sommering) or intercalatum
   See also nucleus of Luys 611.8141
   Foot of peduncle, basis or pes pedunculi, or crusta
   Tegmentum
   Red nucleus, nucleus ruber, or rubrum

5 Nuclei of oculomoto and trochlear nervs

6 Aqueduct of Sylvius, aqueductus cerebri, or mesocele

Isthmus rhombencephali

3 Valv of Vieussens, or superior medullary velum

4 Superior cerebellar peduncles
   Prepeduncules, brachium conjunctivum cerebelli, or crura ad cerebrum

7 Lemniscus: mesial and lateral fillets

Metencephalon or epencephalon, epencefal or hindbrain

Pons (Varolii)

1 Cerebellum
   Lobes, fissures, valv of Tarinus, velum medullare posterius, or kilos
   Cerebellar centers of gray matter Nuclei olivaris superiores: roof
   nuclei, dentate nuclei, dentatum, etc.
   White substance of cerebellum Arbor vitae

3 Pons Varolii Tegument For reticula see 611.8226

4 Nuclei of trigeminus system
   Nucleus motorius or motor nucleus of 5th nerv
   Nucleus of spinal tract or sensory nucleus of 5th nerv

5 Nucleus or nidus of abducent nerv
   " " " facial nerv

6 Saliary nucleus

7 Cochlear nidi or nucleus of cochlear nerv
   Ventral root of 8th nerv

8 Vestibular nidi or nucleus of vestibular nerv
   Dorsal root of 8th nerv
Myelencephalon, metencephal, medulla, bulb or afterbrain, postoblongata or medulla oblongata

1. Pyramids Pyramidal decussation
2. Dorsal column, posterior fibers, or funiculi dorsales
3. Arcuate fibers Restis or restiform body
4. Lateral fibers Oliva or olivary bodies
5. Interolivary stratum, fillet or lemniscus
6. Fourth ventricle or metepicele
7. Nucleus of glossopharyngeal system Solitary tract
8. Nuclei of vagus and accessory nerves
9. Ambiguous nucleus

Meninges and cerebral meninges

1. Pia mater or pia
2. Telae choroideae, velum interpositum, choroid plexus
3. Arachnoid villi
4. Cisterns, or subarachnoid cisterns
5. Dura mater, or dura Tentorium and falx cerebelli

Spinal cord, or myel

1. Anterior or ventral colon or cornu or funiculus anterior
2. Posterior or dorsal
3. Clarke’s column, nucleus dorsalis or Stilling’s nuclei
4. Gelatinosum or gelatinous matter, substantia cinerea gelatinosa
5. Reticula or formatio reticularis
White substance, or alba

Anterolateral column

Anterior plus lateral columns

Pyramidal tract or bundle or fasciculus cerebrospinalis
  Direct or uncrosed tract, fasciculus cerebrospinalis anterior, or
  fasciculus
  Cerebromedullary tract, or fasciculus lateral or spinalis
  Direct cerebellar tract, or dorsolateral cerebellar tract
  Gower’s tract, cerebellar path of anterior funiculus, or fasciculus
  anterolateralis superficialis descendens or anterolateral ascending
  cerebellar tract
  Fasciculus sucomarginalis, or marginal tract of Spitzka and Lissauer
  Lateral column or anterolateral descending cerebellar tract or column
  of Marchi and Lowenthal
  Anterolateral ground bundle or fasciculus proprius anterolateralis
  Anterior or ventral commissure

Posterior or dorsal columns

Ascending fibers
  Tracts of Burdach (posterolateral or cuneatus) and of Goll
  (posteromedian or gracilis) and fasciculus of Rolando
  Descending fibers
  Comma tract in Burdach’s column
  Radicular fibers
  Posterior or dorsal commissure

Roots of nerves

Works tracing nerv roots into spinal cord; for macroscopic studies on
nerv roots see 611.832

Anterior or ventral roots

Posterior “dorsal “

Spinal canal
  Ependyma or endyma
  Rhomboidal sinus
  Reissner’s fibers

Spinal membranes, or meninges spinales

Spinal pia mater
  “ arachnoid
  “ dura mater

Peripheral nervous system

Nervs

Cranial nerves and ganglia

Olfactory, or 1st cranial
  Optic, or 2d cranial
  Motoroculi, 3d cranial or oculomotor
  Trochlear, pathetic, or 4th cranial
  Trifacial, trigeminal, or 5th cranial
  Large or great superficial petrosal branch
  Ophthalmic nerve of Willis
  Superior maxillary nerve or maxillary nerve
  Infraorbital branch
  Mandibular or inferior maxillary
  Abducent, external motoroculi, oculomotor, or 6th cranial
  Facial, 7th cranial nerve, or portio dura
  Other collateral branches
  Terminal branches
  Pars intermedia of Wrisberg (nervus intermedius)
  Chorda tympani
  Auditory, acoustic or 8th nerve
  Cochlear nerve or path, or central auditory path
  Vestibular path or nerv
  Glosso-pharyngeal or 9th nerve
  Pneumogastric, vagus or 10th nerve
  Parietal branches: auricular and lateral nerves
  Pharyngeal branches
  Superior cardiac nerves
  Superior laryngeal nerve
  Inferior or recurrent laryngeal nerve
  Pulmonary branches
  Esophageal and gastric branches
  Spinal accessory or 11th nerve
  Hypoglossal or 12th nerve
Spinal nerves

Including in 5–6 microscopic studies on nerv roots. See also 611.837

1 Dorsal or posterior branches
2 Ventral or anterior
5 Dorsal or posterior roots See also 611.8272
6 Ventral or anterior See also 611.8271

Cervical nerves

1 Dorsal or posterior branches of cervical nerves Small and large sub-occipital nerves
2 Ventral anterior branches of cervical nerves
3 Cervical plexus
32 Large auricular nerv
33 Cutaneous nerv of neck
34 Supraclavicular nerves
36 Phrenic or internal respiratory nerv of Bell
4 Brachial plexus
41 Supraclavicular part
47 Infraclavicular part
5 Median nerv
6 Ulnar or cubital nerv
7 Radial nerv
Musculo-spiral
8 Musculocutaneous nerv
9 Antibrachial ulnaris
Cutaneus brachii medialis, or nerv of Wrisberg

Thoracic nerves

1 Posterior branches
2 Anterior

Lumbar and sacral nerves

1 Posterior branches
2 Anterior

Lumbosacral plexuses

4 Lumbar plexus
41 Great iliobypogastric nerv
42 Ilioinguinal
43 Genitofemoral or genitocrural
44 Lateral or cutaneous nerv of thigh
5 Femoral nerv or anterior crural nerv (femoralis)
51 Middle cutaneous nerv
52 Internal
53 Muscular branches of posterior division of anterior crural nerv
54 Long or internal saphenous nerv
6 Obturator nerv
61 Accessory obturator, or accessory anterior crural nerv of Winslow
68 Lumbosacral cord
7 Sacral or sciatic plexus
71 Superior gluteal
72 Inferior
73 Small sciatic nerv (cutaneus femoris posterior)
8 Great sciatic nerv or ischiadicus
81 External popliteal, or peroneus communis or peroneal
82 Sural or lateral cutaneous branch, or cutaneus surae lateralis
84 Musculocutaneous or superficial peroneal
86 Anterior Tibial nerv or deep peroneal
87 Internal popliteal or tibial
88 Sural or plantar nervs
9 Genital, pudic or pudendal plexus
93 Veral or anterior
95 Collateral branches
96 Pudic nerv

Coccygeal plexus Coccygeal nerves
Sympathetic system

1 Cervical and cephalic part
   Superior cervical ganglion
   Internal carotid nerv and plexus
   Cavernous plexus
   External carotid nerv and plexus
   Common " plexus Superi or cardiac nerv
   Middle " ganglion Middle " "
   Inferior cervical "
   " cardiac nerv Cardiac plexus
2 Thoracic part of gangliated cord
3 Abdominal and pelvic part of sympathetic system
   Solar or epigastric plexus or plexus coeliacus

Eye Organ of vision
See also 611.7146 Orbit, including capsule of Ténon

Fibrous coats or tunics of eye
1 Conjunctiva
3 Cornea
5 Sclerotic coat or sclera
Canal of Schlemm Spaces of Fontana

Vascular coats of eye Uveal tract
1 Iris Pupil
3 Choroid
5 Tapetum
Ciliary body, muscle and processes

Retina
Optic disc; macula lutea For optic nerv see 611.8312

Refracting media
1 Crystallin lens
2 Zonule of Zinn or zonula ciliaris
7 Vitreous humor Posterior chamber
   Hyaloid membrane Hyaloid or Stilling’s or Cloquet’s canal
   Canal of Petit
9 Aqueous humor Anterior chamber

Accessory organs of eye
1 External muscles, musculi oculi
4 Tear apparatus
7 Lacrimal gland
8 " canals and puncta
9 " sac and nasal duct

Eyelids or palpebrae
1 Canthi
5 Eyelashes or cilia
6 Eyebrows or supercilia

Ear Organ of hearing
See also 611.8318 Auditory nerv

Internal ear

Membranous labyrinth
1 Cochlea, scala media, or ductus cochlearis
2 Organ of Corti, or Corti’s fibers
4 Saccula
5 Utricle
6 Semicircular canals

Osseous labyrinth
Vestibule, semicircular canals, cochlea, modiolus or columella
Middle ear or tympanum
  Atrium or tympanic cavity proper
  Attic
  Mastoid cells
  Membrana tympani, or drumhead
  Eustachian tube or tuba auditiva
  Bones of ear
  Malleus or hammer; incus or anvil; stapes or stirrup; muscles of tympanum, stapedius and tensor tympani

External ear
  Meatus, pinna
  Organs of smell; olfactory organs
  "" taste
  "" touch and senses in general

Organa lateralia

Ganglions
  Class ganglions here if separately treated

Cranial ganglions
  Semilunar ganglion or Gasserian
  Ciliary "
  Sphenopalatine or Meckel's ganglion
  Otic or Arnold's submaxillary ganglion
  Geniculate ganglion
  Spiral or Corti's ganglion
  Vestibular ganglion
  Petrosal and superior glossopharyngeal ganglion
  Jugular and nodose ganglions
  Ganglions of spinal nerves
  See also 611.832 Spinal nerves
  Sympathetic ganglions
  For chromaffin tissue see 611.4

Regional anatomy
  Head
  Face
  Neck
  Thorax
  Front or pectoral
  Back or dorsal
  Abdomen
  Epigastric region
  Mesogastric "
  Hypogastric "
  Lumbar "

Pelvic and perineal region
  True pelvis
  False "
  1 Inlet  2 Cavity  3 Outlet
  Position and size
  Difference between male and female pelvis
Upper extremities
.971 Shoulder or axilla
.972 Arm
.973 Elbow
.974 Forearm
.975 Wrist
.976 Hand
.977 Fingers

Lower extremities
.981 Hip Nates Sulcus inguinalis
     1 Hip
     2 Nates
     3 Sulcus inguinalis
     4 Inguinal canal
     5 Crural or femoral canal
.982 Thigh
.983 Knee Popliteal space
.984 Leg
.985 Ankle
.986 Foot
.987 Toes
.99 Tail
SUMMARY

612.013 Vitalism

.014 Cells and organisms
.015 Physiologic chemistry
.1 Blood and circulatory system
.2 Respiration
.3 Digestion
.4 Glandular system
.5 Animal heat
.6 Reproduction Development
.7 Motor and vocal apparatus
.8 Nervous system

General theory of physiology

Notion, definition, nature
Classification, division
Terminology, notation, symbols
Methods

Physiologic theories and generalities

On the nature of life and deth Vitalism

This place is provided for the physiologist who prefers to keep related topics with his subjects. Usually the heds under this number are better classt in their broader relations; i.e. see 577.2 for the nature of life; 577.7 for the nature of deth; 612.67 for deth as a stage in vital history

1 Signs of real deth See 577.7
2 Experiments on executed persons
4 Theories of life and the soul Vitalism
   See metaphysics, 128
5 Comparisons of animals and plants See 577.5
6 Organism and inanimate matter See 577.1
7 Vital energy See 577.6
8 Experiments on surviving organs See 577.6

General physiology of cells and organisms

See 576 and note under 612.013

Chemistry of cells

Aerobic and anaerobic cells

Physiologic morphology of cells

Functions of protoplasm

" nucleus
" chromosome bodies Chromatolysis
" centrosome

Physiologic characteristics of cells

Irritability in general
Fatigue

Influence of environment on cells and organisms

Mesology

Effects of barometric pressure

See also 612.27 Influence of barometric pressure on living beings

Action of electricity Electrophysiology

Electrophysiologic technic

See also 615.84 Electrotherapy
Static electricity
Dynamic electricity
Alternating currents
Electric measuremens
Special instruments

1 Electodes 2 Telefone, microfone
6 Galvanometers

Electric resistance Conductibility
Electric phenomena of organisms
For electric phenomena of muscles see 612.743, of nerves and
muscles see 612.813
1 Theory of electric phenomena
2 Negativ variation
3 Electrotonus
4 Electric phenomena of tissues in repose and in action

Action of electricity on organisms
Everything concerning effect of electricity on function may be
classified here by adding 0 and dividing like 612; e. g. action
dividing like 612; e. g. action of electricity on red corpuscles 612.0144240111, as .111 is the
subdivision of 612 meaning red corpuscles. Action of elec-
tricity on bile 612.0144240357, as .357 means bile
2 Action of static electricity
3 " atmospheric "
4 " dynamic "
5 " alternating currents

Deth by electric shock; by lightning
2 Magnetic action
3 Galvanotropism
4 Electrotherapy from physiologic point of view

Action of heat and cold See also 612.59

Action of light See also 612.843
2 Phosphorescence
3 Heliotropism Phototropism
See also 615.831 Phototherapy

Action of sound and its vibrations
See also 612.85876

Poisons and chemic substances
Poisons and definite chemic substances are preferably classed in
615.7, general toxicology in 615.9. This number is for topics of
special physiologic interest

Effects of water
1 Reviviscen animals
2 Hydrations
3 Quantity of water in organisms and tissues

Physicochemic forces
1 Osmosis
2 Molecular concentration in organic fluids Cryoscopy
   Subdivisible with o like 612; e. g. Cryoscopy of gastric juice
   612.0144622032
3 Relation between secretion and osmotic pressure
4 Relation between osmosis and electric action: ions
5 Colloid substances: coagulation, agglutination, etc.
See also 612.38133 Theory of histologic conservation
6 Reaction, acid or alkaline
7 Viscosity
8 Superficial tension
9 Other physicochemic forces

Action of mineral salts on organisms
1 " air, normal and abnormal; of oxygen and ozone
2 " anesthetics
3 " antiseptics

Chemotaxis Chemotropism

Action of other chemic forces

Action of mechanical forces

Geotropism

Thigmotaxis

Other physical forces

Various rays
1 Physiologic effect of X rays
   To express effect of X rays on a specific organ or tissue, add
   o and subdivide like 612; e. g. effect of X rays on sight
   612.014481084
4 Effect on lower organisms

Effect of radioactiv substances; Becquerel rays

Production and action of N rays
Physiologic chemistry in general

1 Ferments
11 Oxydants Reducing ferments
12 Hydrolytic
13 Proteolytic
14 Lipolytic
15 Amylolytic and sucroclastic
16 Glycolytic
161 Alcoholic

Normal composition of the body and its products
See also 612.3926, 612.396-.398

2 Extracts of organs

3 Metabolism
31 Of mineral substances
See also 612.3926
32 Of carbon
See also 612.22
33 Of nitrogen
See also 612.46123
34 Of substances fored to the normal organism
Elimination of poisons
Most material will be class under 615.7 and its subdivisions
See also special organs
346 Metabolism of nonnitrogenous substances
347 " " crystallizable nitrogenous substances
348 " " albuminoids
349 " " after death Autolysis
Subdivisible with o like 612; e. g. autolysis of the liver
612.015349035

35 Influence of temperature on metabolism
See also 612.59
36 Reductions, hydrations and syntheses in organisms
37 Influence of other agents on metabolism
38 Influence of nervous system on metabolism
39 Metabolism in disease

4 Staining substances and pigments

Means of attack and defense
Comparativ physiology; usually better class in 591.57
1 Autotomy
2 Mimicry
3 Physiology of parasites

Comparativ physiology
May be subdivided like 590 to signify kind of animal; e. g. Reptils
being 598.1, comparison of reptil and human physiology is 612.01981
Class here only books written distinctly from physiologist's point
of view Other works on comparativ zoology are better in 591.1

Form divisions

.02 Compends
.03 Dictionaries Cyclopedias
.04 Essays Addresses
.05 Periodicals
.06 Societies Clubs
.07 Study and teaching
.077 Vivisec tion
See also ethics, 179.4, and laws 614.22
.08 Polygrafy
.09 History
Blood and circulatory system

I. History of circulation of blood

II. General properties of blood

III. Red corpuscles

1. Chemic composition
   1. Hemoglobin and oxyhemoglobin
   14. Carboxyhemoglobin
   15. Action of CO on blood, carbon monoxid hemoglobin
   16. Spectroscopy of blood
   17. Methemoglobin and derivates
      - Hematin or hematoxylin, hematoidin, globin, hemin or Teichmann's crystals, hematochromogen, hematoporphyrin
   18. Isotony of corpuscles
   19. Osmotic permeability
      - Chemic substances in corpuscles
      - Lecithin, urea, cholesterol, etc.

2. Number of corpuscles

   21. Technic of counting
   22. Volume of corpuscles

3. Formation of corpuscles

   23. See also 612.119 Sanguification

4. Action of poisons on corpuscles

   24. See also 612.1114 Action of CO on blood
   25. Agglutinating substances
   26. Hemolytic substances

5. Corpuscles in disease

6. Other red corpuscles than erythrocytes

7. Coloring matters of invertebrate blood
   e.g. hemocyanin

8. Other similar coloring matters
   e.g. chlorophyl and derivates: phylloerytrin

II. Leucocytes and ameboïd cells

1. Chemistry of leucocytes
   11. Ferments of leucocytes
      - Influence of leucocytes (lymphocytes) on digestion

2. Movements and irritability of leucocytes
   21. Phagocytosis
   22. Diapedesis

3. Effect on coagulation of blood

4. In disease and intoxications
   41. Leucocytosis

   42. For digestiv leucocytosis see 612.1121

5. Counting and its technic

6. Numeric relations of white and red corpuscles

7. Varieties

   71. Physiologic morphology

II. Arterial blood

II. Venous

II. Coagulation of blood

1. Fibrin
   11. Fibrinoplastin

   12. Composition and chemic properties

   13. Fibrogenous and fibrinoplastic ferments

   14. Fibrinogen

   15. Thrombin

   16. Estimating quantity of fibrin

2. Substances modifying coagulation

3. Retarding agents

35. Accelerating agents
612.116 Total quantity of blood
2 Hemorrhage Anemia
   Subdivisible with o like 612; e. g. physiologic influence of anemia on kidneys 612.1162046 For pathologic effect see 616.343, 618.54
21 Hemostasia
3 Transfusion
   Effect on system receiving transfused blood

.118 Physical and biologic properties of blood

1 Physical
11 Osmotic pressure
   See also 612.11117 Osmotic permeability
12 Effect of various injections
14 Viscosity
17 Cryoscopy of blood
   Method of studying isotony and similar phenomena by relativ freezing points of solutions

2 Biologic properties
21 Toxins and antitoxins
   Physiologic effect For chemic action see 612.3988 May be used for those not produced by the blood, e. g. cytotoxins
211 Theory of toxic and antitoxic action
22 Toxic and antitoxic action of blood
   Limited to blood toxins and antitoxins. See also 612.3988
221 Specific reaction of blood and albuminoids
   Blood in legal medicin
222 Natural immunity
223 Effect of blood on bacteria
   Class here physiologic aspect of opsonic theory, opsonins and opsonic index See also 615.37 Serotherapy
24 Various toxic and antitoxic substances of blood
7 Varieties of blood in different parts of body

.119 Hematopoiesis or sanguification
   See also 612.1113 Formation of red corpuscles

.12 Chemic properties of blood

.121 Reaction and density
   Color reaction Specific gravity

.122 Carbohydrates in blood
   1 Glucose 2 Glycogen 3 Glycolytic ferments

.123 Fats, lipoids, cholesterol, saponin, glycerin

.124 Albumins and albuminoids Uncrystallizable nitrogen compounds
   See also 612.39812 Blood serum

.125 Crystallizable nitrogen compounds
   Staining substances of serum

.126 Mineral salts

.127 Blood gases
   1 Technic for determining quantity 2 Oxygen 3 Carbonic acid

.128 Ferments

.129 Other chemic substances
   Abnormal substances
Hydraulic principles of circulation

Arterial circulation
Sounds and murmurs
See also 612.143

Venous circulation
See also 612.144
1 Air in the veins
2 Venous pulse Phlebogram

Capillary circulation

Blood pressure

Technic of measuring pressure
Sphygmograp Sphygmomanometry

Pressure in arteries
See also 612.133

Pressure in veins
See also 612.134

Pressure in capillaries
See also 612.135

Influence of various agents on pressure
1 Influence of respiration Asphyxia
See also 612.213
2 Effect of drugs and organic extracts Pressure in disease
3

Pressure in lesser or pulmonary circulation.

Rapidity of circulation
In arteries, veins or capillaries Technic of measuring

Pulse
For dicrotic pulse see 616.071 Pulse in diagnosis
See also 612.1342 Venous pulse

Pulse in disease

Hart

Mechanism of cardiac contraction
Impulse or apex beat Change of volume and position of beating hart Systole Diastole
1 Technic of cardiac contraction Cardiografy
3 Valvs System of valv closure
5 Hart sounds
56 " " in disease
7 Action of abnormal hart: misplaced or malformed

Hart as a muscle
Cardiac irritability, contractibility and physiologic morphology
1 Action of blood and coronary arteries Cardiac anemia
2 Rhythm Excitation wave Frequency of beats
3 Electric stimulation of hart and refractory period
4 Electromotiv force
5 Surviving hart Artificial respiration
6 Solutions maintaining beat of hart
6 Physiologic morphology
61 Conduction of stimulation
612.173 Work of the hart
   Chemic, dynamic and thermic phenomena
   1 Chemic composition of hart
   2 Intracardiac pressure
   .174 Effect of toxins on the hart
   1 Atropin
   2 Anesthetics
   .176 Hart in disease
   .178 Innervation of hart
   1 Pneumogastric or vagus
      See also 612.839911
   2 Sympathetic
      See also 612.897
   3 Ganglions of hart
   4 Action of cerebrum
      See also 612.8328
   5 Action of medulla oblongata
      See also 612.828
   6 Cardiac syncopes and reflexes
   7 Depressor nerv
   .179 Prenatal circulation
   .18 Vasomotors
   181 Action of nerves and nerv centers on bloodvessels
      1 Action of cerebrum
      2 " " medulla oblongata
      3 " " spinal cord
      4 " " great sympathetic
   .182 Influence of vasomotors on arterial pressure
   .183 Vasoconstrictors
   .184 Vasodilators
   .185 Effect of poisons on vasomotors
   .186 Vasomotors in disease
   .187 Vasomotors in organs
      Divide like 612 Physiology; e. g.
      612.18734 Effect of vasomotors on lung capacity
      612.1878421 Effect of vasomotors on iris
      612.18785 Influence of vasomotors on temperature
      612.1878556 Vasomotors in fever
   .188 Erectil tissues
      See also 612.612
   .189 Change of volume of organs
      Plethysmography Quantity of blood in various organs
   .19 Action of special organs on circulation
   .2 Respiration
      See also 612.793 Cutaneous respiration
   .21 Respiratory movements Mechanics of respiration
   .211 Pneumografy Respiratory types
      Respiratory excursion
   .212 Pulmonary elasticity and intrapleural pressure
      Intrapulmonary and intrathoracic respirations
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<td>Influence of muscular movements</td>
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<td>Motion, rest, work</td>
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<td>Influence of nervous system</td>
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612.23 Gaseous exchange in the blood

.231 Expired air  Respiratory quotient
.232 Asphyxiation
In legal medicine
1 Artificial respiration in asphyxiation
2 Asphyxiation by submersion
3 Hart in asphyxiation
4 Toxic action of carbonic acid (CO₂)

.233 Respiration in confined air
.234 Toxic action of carbonous oxid (CO)
See also 612.1111 and 615.96
.235 Exchange of gases between air and blood
Theory

.24 Lung capacity  Vital capacity
Residual, reserv, respiratory or tidal and complementary air
.25 Exhalation of water from lungs
.26 Internal or tissue respiration
.261 Exchange of gases between tissues and blood
.262 Accumulation of oxygen in tissues (cells)
.27 Influence of barometric pressure on living beings
See also 612.0144. For effect on absorption of oxygen and exhalation of carbonic acid see 612.2232
.273 Toxic effects of oxygen and ozone
.274 Effect of more than normal pressure
Physiologic aspect of caisson disease
.275 Effect of less than normal pressure
   Physiologic and therapeutic effects of high altitudes
      Mountain and aeronautic sickness
.276 Effect of pressure on fermentations
      Effect of removing pressure
.279 Maximum pressures
      Effect on aquatic animals
.28 Respiratory centers
Influence of nervous system on respiration
.281 Action of cerebrum and of will
   " " medulla oblongata and vagus nucleus
   " " spinal cord
   " " chemic substances and abnormal blood gases
1 Toxicology of center
   Apnea, acapnea, dyspnea
   See also 612.232
.287 Action of pneumogastric or vagus nerves
   See also 612.819912
.288 Respiratory reflexes
   See also 612.8332
.29 Influence of other organs on respiration
Digestion

Mouth   Teeth   Salivary glands

- Mastication and prehension
  1   Physiology of teeth

- Deglutition or swallowing
  2   Tonsils   3   Tung

- Salivary glands   Saliva
  1   Composition of normal saliva
  2   Action of saliva on food   Ptyalin
  3   Salivary secretion
     31   Toxic effect of saliva
  4   Action of chemic substances
      See also Therapeutics, 615.74   Sialagog
  41   Elimination
  42   Action of atropin and of pilocarpin

- Physiologic morphology

- Pathologic changes of saliva
  61   Salivary fistulas
  63   Bacteriology
  64   Salivary calculi
  69   Abnormal substances

- Action of nervous system on salivary secretion
  81   Action of sympathetic nerves
      See also 612.898
  87   Action of chorda tympani
      See also 612.81977

- Salivary venoms and venoms in general
  1   Chemic composition
  2   Toxic action
  3   Natural immunity and resistance to venoms
  4   Attenuation and neutralization of venoms
  5   Treatment of venom poisoning   Serotherapy
      See 615.94   Duplicated here for physiologist only
  51   Antitoxins
      See also 612.1182   Antitoxins of serum

- Esophagus

- Stomach   Gastric juice   Vomiting

- Normal composition of gastric juice
  1   Gastric fistulas, experimental and pathologic
  2   Determination of acid in gastric juice
  5   Proteolytic ferments: pepsin
  6   Milk curdling ferments, inorganic and organic

- Digestive power of gastric juice
  1   Starch and analogs
  2   Sugars   "   "
  3   Fats   "   "
  4   Albuminoids
      Nature and properties of peptones
      See also 612.39817
  5   Antiputrefactiv properties of gastric juice
  6   Mixture of bile or other secretions of digestiv tract
      and gastric juice
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Stomach secretion
- Formation and destruction of pepsin
- Pepsin in urine
- Formation of hydrochloric acid (HCl)
- Autodigestion of stomach
- Effects of removing stomach

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Physiologic morphology of stomach
- Relation between morphologic changes and stimulation

Pathologic changes of stomach secretion
- Bacteriology
- Gastric juice in disease
- Abnormal substances in gastric juice

Movements of stomach
- Muscular irritability of stomach
- Motor action of pneumogastric
- Evacuation of stomach
- Merycism and rumination
- Vomiting
- Action of emetics or vomitories

Action of nervous system on stomach
- Psychic influence on stomach secretions
- Sensibility of stomach

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- Middle intestin and glands of middle intestin in invertebrates

Normal composition of intestinal juice
- Intestinal fistulas, experimental and pathologic
- Intestinal gases

Intestinal digestion
- Carbohydrates
- Fats
- Albuminoids and derivates
- Absorption and changes of food in intestin

Intestinal digestion on other secretions and ferments

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See also therapeutics, 615.732 Cathartics
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Parasites and microbes
Bacterial fermentation Physiologic effect of microbes
Movements of intestin
Movement of chyme in intestin
Action of nervs and nerv centers on secretion
Peritoneum Omentum
Absorption in peritoneum
Pancreas Pancreatic juice
Normal composition of pancreatic juice
Pancreatic fistulas
Action of pancreatic juice on food Tryptic digestion
Starches and analogs
Sugars
Fats Steapsin or ptyalin
Albuminoids Trypsinogen Trypsin
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Pancreas as an internal gland Islands of Langerhans
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Chemic composition
Ferments
Hepatic circulation
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Effect of extracts from hepatic tissue
Hepatic opotherapy
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See also 612.396112 Chemistry of glycogen

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Sugar of the blood See also 612.122

Action of nerves on glycogenic function Experimental diabetes

Fermentation of glycogen Glycogenolysis

Glycosuria (diabetes) in general
See also 612.4661 and pathology 616.63

Glycogen of other organs

Glycogen of muscles See also 612.7441

Relations between glycogenesis and alimentation

Fat Adipogenic function

Hepatic chemic phenomena

Formation of urea See also 612.4612

Action of poisons on liver

Toxic steatoses

Antitoxic action of liver

Temperature of liver See also 612.563

Hematopoietic function of liver and effect on blood
See also 612.119

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Normal composition of bile

Biliary fistulas

Coloring matter Bile pigments

Bilirubin, biliverdin For origin see 33 below

Mineral salts

Biliary acids and their salts

Glycocholic and taurocholic acids

Action of bile in the intestin

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Quantity

Origin of bile acids

" " " pigments

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See also therapeutics, 615.742 Cholagog

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Pathologic physiology of bile

Biliary calculi

Obiliteration of bile ducts Icterus Jaundis Cholemia
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Bile in disease

Toxic effects of bile

Abnormal biliary substances

Biliary excretion Physiology of ducts

Gall bladder

Absorption in biliary ducts

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Action of nervous system on liver

Ablation, regeneration, cicatrization and other morphologic phenomena

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Defecation  Large intestine
   Proctodeum and its appendages in invertebrates
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  .361  Chemic composition of excrements
  .363  Cecal digestion  Vermiform appendix
  .364  Absorption in large intestine
  .365  Defecation
  .366  Rectum
  .367  Movements of large intestine
  .368  Innervation  "  "  "
  .38  Absorption
  .381  Imbibition  Transudations and exudations  Edema
  .382  Osmosis  See also 612.0744621
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     "  "  albuminoids
  .383  Diffusion
  .384  Absorption by skin
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  .385  Absorption by lungs
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  .386  Absorption in digestive tract
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  .387  Absorption by mucous and serous membranes
     See also 612.3391
  .388  Parenchymatous absorption
     Absorption by cellular tissue (after injection)
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  .39  Nutrition  Metabolism
  .391  Hunger  Thirst  Inanition
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     Inanition in man
     "  "  disease
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     7  Vegetable foods.
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     72  Fruits and fresh vegetables
     73  Cereals
     74  Bread
Animal food

See also hygiene, 613.38 Meats in diet

Meats

Soup Meat extracts

Egs

Milk

See also 612.664 Sterilization and artificial changes in milk

Cheese

Butter

Special artificial foods

Condiments and stimulants

1 Alcohol as food Fermented drinks

See also hygiene of nervous system, 613.8i Alcohol

2 Coffee Tea

See also hygiene of beverages, 613.37

Condiments

Ration or food requirement during growth

2 Of man Nourishment of newborn

" animals

Ration or food requirement of adults

1 Working ration Normal ration

Working ration for man

" " " animals

2 Subsistence ration

Subsistence ration for man

" " " animals

5 Relations of ration to external conditions, e. g. climate

6 Food requirements in disease

Carbohydrates

Chemical composition

Poly saccharids

Starch Inulin

Glycogen

Cellulose

Gums and analogs: dextrin

Monosaccharids: glucose, mannose, galactose, fructose, etc.

Disaccharids: sugar, lactose, maltose, etc.

Combined carbohydrates

See 612.3981453 Glycoproteids

Chitin

Glycosids: amygdalin, salicin, phlorizin, saponin, etc.

Other carbohydrates: pentose, inositol

Changes of sugars in organism Glycolysis

Products of carbohydrates: e. g. glycuronic acid

Alcohol in tissues

Hydrolytic fermentations of carbohydrates and analogs

Amylase, inulase, cytoside, etc.

Saccharolytic fermentations Inversion

Formation of carbohydrates in organism

Thermodynamic value of carbohydrates

Quantity of carbohydrates in foods and tissues
Fats

1. Chemic composition
2. Changes of fats in organism
   - Fatty degeneration and infiltration See also 612.395
   - Products of fats
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4. Glycerins
5. Lipolytic ferments
6. Formation of fats
7. Thermodynamic value
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   2. Blood serum and other serous fluids of body
      - See also chemical properties of blood, 612.124 Albuminoids
   3. Simple albuminoids
      - Albumin
      - Globulins: fibrinogenic and fibrinoplastic substances, myosin, etc.
      - Coagulated albuminoids Fibrin Coagulation of albuminoids
      - Albuminoids as acids or bases
      - Nucleoalbumins, simple phosphorated albuminoids
      - Protamins
      - Other albumins
      - Other albuminoids
   4. Proteids
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      - Nucleoproteids
      - Albumin + nucleic acid, products of nucleic acid and specific ferments
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      - Albumin + an iron compound. See also 612.11111
   5. Glycoproteids
      - Albumin + a carbohydrate. See also 612.3967
      - Albuminoids: glutin, elastin, amyloid, etc.
   6. Vegetable albuminoids
   7. Albuminoid products and nitrogen compounds
   8. Albuminoses and peptones
   9. Thermodynamic value
   10. Changes of substances derived from albuminoids by digestion
       - Products of complete change of albuminoids Nitrogen compounds
       - Protaminic nucleus See also 612.39813
       - Amidic acids
       - Urea Uric acid See also 612.412, 612.46125, 612.398195
       - Ammonia and ammonia compounds
       - Bases (alkaloids), purin compounds
       - Aromatic compounds
       - Nonnitrogenous products of albuminoids
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Animal food

See also hygiene, 613.28 Meats in diet

Meats
Soup
Meat extracts
Egs
Milk

See also 612.664 Sterilization and artificial changes in milk
Cheese
Butter

Special artificial foods

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See also hygiene of nervous system, 613.81 Alcohol

Coffee Tea
See also hygiene of beverages, 613.37

Condiments

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" animals

Ration or food requirement of adults

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" " " animals

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Starch Inulin
Glycogen
Cellulose
Gums and analogs: dextrin
Monosaccharids: glucose, mannose, galactose, fructose, etc.
Disaccharids: sugar, lactose, maltose, etc.
Combined carbohydrates

See 612.3981453 Glycoproteids
Chitin
Glycosids: amygdalin, salicin, phlorizin, saponin, etc.
Other carbohydrates: pentose, inusitum

Changes of sugars in organism Glycolysis
Products of carbohydrates; e. g. glycuronic acid
Alcohol in tissues
Hydrolytic ferments of carbohydrates and analogs
Amylasis, inulasis, cytasis, etc.
Saccharoclastic ferments Inversion
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Thermodynamic value of carbohydrates
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16. Albuminoid products and nitrogen compounds
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19. Products of complete change of albuminoids  Nitrogen compounds
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| .402 | " glands " circulation and blood |
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| .404 | " nutrition " glands |
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| .407 | Effect of glands on nervous system |
| .408 | " nervous system on glands |
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Physiologic morphology of secretions and glandular epitheliums

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- Effect of spleen on blood
- Splenotomy
- Circulation in spleen
- Contractility of spleen
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- Thyroid gland
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Other glands and secretions

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Hypophysis or pituitary gland Somatic brain

Scent glands of animals

Bartholini's glands

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Other glands

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Speech

Function of mouth and nose

" " lips and soft palate

Innervation of organs of speech

Aphasia

See also 616.855

Vowels and consonants

Ventriloquism

See also 791 Ventriloquism as an amusement.

Skin

Chemical composition

Absorption

See also 612.384

Penetration by solids

Absorption of fats

" " solutions

" " liquids

" " gases

Cutaneous glands and secretion

Swet

Chemical composition

Toxic action of swet

Action of chemical substances on swet secretion

Elimination of poisons by swet

Physiologic morphology of swet

Pathologic changes of swet

Action of nervous system on cutaneous exhalation

Other cutaneous secretions

Cutaneous respiration

Effect of suspended transpiration; closing pores by liniments, etc.

Effect of chemical substances on skin

See also 612.7924

Cutaneous sensibility

Electric conductibility and resistance of skin

See also 612.014422

Chromatophores and skin pigments

Trofic nerves of skin

Growth and physiology of nails and hair
Nervous system

Theory of nervous system and innervation
1 Dynamogenesis and inhibition
2 Action of nervous system on chemic phenomena
3 Effect on morfogeny and evolution
See also 612.605

Peripheral nervous system  Nerv fibers

Distinction between sensory and motor nerves
1 Ganglions of sensory nerves
3 Influence of sensibility on movement and of movement on sensibility

Recurrent sensibility

Electric phenomena of nerves and muscles
Muscle-nerv experiments as indicativ of nervous process
For muscle phenomena see 612.743
1 Negativ variations
3 Electrotonus

Chemic and thermic phenomena of nervous stimulation
For stimulation of nerv centers see 612.822

Physiologic morfology of nervous stimulation
1 Sensory terminations
2 Motor

Irritability of nerves and muscles
Nerv-muscle or nerv-gland physiology
1 Action of electricity
2 Theories of nerv waves
3 Nervous conductibility
4 Effect of blood on nerves  Anemia
5 Rapidity of nerv waves
6 Nerv fatigue
7 Action of chemic substances on nervous irritability

Effect of nerves on muscles and glands
1 Chemic substances  Curare poisons
2 Voluntary contraction
3 Tonicity  Atrofy of muscles after cutting nerves, etc.
See also 612.746

Trophic nerves
5 Degeneration, regeneration and cicatrization
1 Degeneration  2 Regeneration  3 Cicatrization
Special nerves

Whenever possible class according to function rather than according to a particular nerve, classing here only special nerve physiology.

1 1st pair: olfactory

2 2d pair: optic

3 3d pair: motoroculoi or oculomoto

31 Innervation of iris

See also 612.8422

32 Innervation of eyelids

See also 612.847

33 Innervation of eye muscles

4 4th pair: trochlear or pathetic

5 5th " : trigeminal

52 Sensory action

53 Trofic action

6 6th pair: external oculomoto or abducent

7 7th " : facial

71 Effect on facial muscles

73 " " respiration

74 " " hearing

75 " " deglutition and taste

77 " " salivation Chorda tympani

See also 612.31387

78 Pathology Facial paralysis

8 8th pair: auditory

See also 612.8585

9 9th pair: glossopharyngeal

91 10th " : pneumogastric or vagus

911 Effect on heart and circulation

See also 612.1781

912 Effect on respiration

See also 612.287

913 Effect on digestive organs

See also 612.328, 612.338, 612.348, 612.358, 612.368

915 Effect on kidneys and other glands

See also 612.4

917 Effect on voice production

See also 612.7822

918 Section of vagus or pneumogastric

92 11th pair: spinal accessory

921 Anastomosis with vagus

922 Innervation of respiratory organs

See also 612.28

923 Innervation of vocal organs

See also 612.7893

93 12th pair: hypoglossal

94 Spinal nerves in particular

941 Phrenic nerve
Nervous centers  Brain

Physiologic psychology

Usually better cast in 130 Mind and body

Time of reaction to stimulation  Psychometry

Attention  Memory  Association  Imagination

Instinct  Intelligence  Emotions  Sensibility

Comparative psychology

Nonautomatic actions of animals  Anticlis

Automatic

For physiologic aspect see 612.839

Instincts of animals  Behavior  See also 591.51

Emotions  Sensibility

Inhibition of movement  Will  Habit  Impulse

Associated movements

Action of poisons on intelligence

See also 613.8 Hygiene of nervous system

Alkaloids

Nonalkaloid anesthetics  See also Therapeutics, 615.96 Cerebral poisons

Alcohol

See also Therapeutics, 615.964 Alcohol as cerebral poison

Pathology  616.861 Alcoholism

Effect of disease on intelligence

Sleep  Hypnotism

See also 135 Sleep, Dreams

Hypnotism  See also 134 Mesmerism, Hypnotism

Theories of sleep

Cerebral circulation in sleep

Chemical phenomena of organism in sleep

Dreams

Sense in general and theories of perception

Psychophysical laws

Sensory delusions

For optic illusions see also 612.84374

Nerv cells and nerv centers

Chemistry of nervous tissue

Metabolism in nerves

Chemical phenomena of nervous excitation

For stimulation of nerve fibers see 612.814

Electromotiv phenomena of nervous excitation

Thermic

Physiologic morphology

Effects of fatigue

Degeneration and regeneration of centers

Effects of removal and experimental, pathologic or teratologic lesion of nerv centers

Movement in a circle (motus circularis, manège)

Decapitation

Action of central nervous system on chemical phenomena of organism

See also 612.01538, 612.8012

Effect of chemical changes on centers
612.823 Weight and general morphology of brain
5 Conduction in centers
.824 Cerebral circulation
1 Neurolymph, neurolympha or cerebrospinal fluid
Meninges Choroid plexus
2 Brain movements
3 Cerebral vasomotors
4 " anemia
5 Pressure on nerve centers
55 Compression and concussion of brain Abnormal pressure
6 Temperature of blood in nerve centers
Effect of abnormal pressure
.825 Cerebral convolutions (cortex)
1 Cortical excitability
2 Psychomotor centers Localizations
23 Inhibitory actions
See also 612.8338
24 Localization in man
249 Speech Aphasia
See also 612.7893
25 Localization in animals
26 Topography of localizations
261 Frontal lobe
262 Occipital "
263 Parietal "
264 Temporal "
265 Central "
266 Olfactory "
3 Cortical epilepsy
See also 616.833
5 Sensory functions of convolutions
Convolutions as seat of senses
54 Sight
55 Hearing
56 Smell
57 Taste
58 Muscular sense
See also 612.885
59 Touch
See also 612.88
8 Intellectual functions
Only for physiology of these functions
.826 Cerebral ganglions, commissures, etc.
1 Optostriate body and callosum
Or optic thalami, striatum and callosum
2 Conduction in the brain
See also 612.8335
3 Crura or cerebral peduncles Epiphysis Infundibulum
5 Quadrigeminum Optic lobes
7 Cerebellar peduncles or prepeduncles
8 Pons
### Cerebellum

**Special physiology of central nervous system of invertebrates**

- Regulating effect of ganglia
- Circular movements (manège)
- Chain of ganglions
- Network of nerves, or rete nervosum
- Reflex movement
- Locomotion in respect to physiology of nervous system
- Reflexes proper
- Rhythm
- Refractory period
- Tonicity
- Tonic reflex
- Coordination

### Medulla oblongata or postoblongata

- Spinal cord or myel

### Conduction in the cord

- Excitability of cord

### Reflex action

- Subdivide like 612; e.g. 612.8332 Cardiac reflexes
- 612.8332 Uterin reflexes
- 612.8337 Limb reflexes; knee jerk

- Action of superior nerv centers on reflexes
- Other phenomena of reflex action
  - Rapidity of reflexes
  - Pathology
  - Effect of anemia
  - Action of poisons on reflexes
  - Rhythm in general
  - Refractory period
  - Coordination
  - Other phenomena
    - e.g. reflexes according to nature of impulse: fatigue, etc.

### Cord as center of innervation

### Degeneration and regeneration of cord

### Atrophies

### Physiologic optics

### Sight

### Fibrous tunics of eye

- Cornea
- Conjunctiva
- Anterior chamber
- Sclera

### Vascular tunics

- Iris
- Choroid
- Ciliary body

- Iris accommodation
  - See also 612.844 for general papers on accommodation

### Pupilometers

- Action of nervs and nerv centers on pupil
- Effects of light
- Action of chemic substances on iris
  - Atropin
  - See 615.784
- Choroid
- Eye pigments
- Ocular circulation
- Intraocular pressure

### Ophthalmometers
612.843 Optic nerve Retina
See also 612.8192 2d pair of Cranial nerves; optic

1 Physiologic morphology Retinal purple
12 Ophthalmoscope
13 Retinal circulation " purple
15 Physiologic morphology of retina
2 Irradiation
3 Color sense Chromatic sensibility
31 Color sight Power to distinguish colors
For color blindness see 512.8455; 617.75
32 Sensitiveness to color For pathology of chromatic sensibility see 612.8455
34 Mixture of colors
35 Contrast of colors
4 Entoptic phenomena
5 Persistence of retinal impressions
6 Field of vision Visual acuteness and sensibility
61 Photometry Photometric technic
62 Field of vision
63 Visual acuteness and sensibility
7 Conduction in the brain Perception
71 Histology of fibrillae Center of sight
72 Optic perceptions Localization of image in space
721 Binocular perception Stereoscopy Perception of
distance, size and form
Perception of differences in height of surface For movement
see 612.8462
73 Impression of color suggested by sound, auditus coloratus
74 Optic illusions
75 Observations on those born blind
78 Degenerations of optic nerve and fibrillae

844 Refractory apparatus Ocular refraction
See also 612.8431
1 Crystallin lens
4 Aqueous humor
7 Vitreous humor

845 Functional disorders or pathology of sight
See also 617.75
1 Myopia
2 Hypermetropia
3 Astigmatism
4 Presbyopia
5 Daltonism Color blindness
See also 612.8431 Color sight; 617.75 Disorders of vision
6 Hemeralopia
Movements of eye

Binocular vision

For perception see 612.843721

Action of 3d cranial or oculomoto nerv

" " 4th " or trochlear nerv

" " 6th " or abducent nerv

Strabismus Diplopia

Palpebral and lacrimal apparatus

Hearing

External ear: functions

Middle ear

Tympanic membrane or drumhed Tympanum

Eustachian tube

Bones

Internal ear

Conduction of sound in internal ear

Utricle Saccule

Semicircular canals

See also 612.8863 and 616.81982 Vertigo

Cochlea Corti's organ or fibers Spiral organ

Acoustic nerv

Endolymph

Acoustic perception Conduction of acoustic excitation in the brain

Auditory acuteness

Auditory center in brain

See also 612.82555

Subjective sensations

Musical physiology and psychology

Distinction of tones and quality or tone color (timbre)

Binaural hearing

Localization of sound in space Estimation and effect of distance

Sensibility of living beings to sound and vibrations Otocysts

Auditory reflexes

Smell

See also 612.82556 Seat of smell

Perceptions Conduction in the brain

Taste

Function of lingual nerv

See also 612.8195

Function of chorda tympani

See also 612.81977

Function of glossopharyngeal nerv

See also 612.8199
612.88 Touch  Tactil sense  Equilibrium

.881 Notion of space
.882 Sense of temperature
.883 Sense of pressure
   Including all related phenomena; e.g. tickling
   Esthesiometers
.884 Sensibility to pain
.885 Muscular sense  Power sense
.886 Sense of equilibrium
   1 Sense of direction and orientation
   2 Seasickness
   3 Vertigo
   See also 612.8583
   9 Function of special organs
      Function of lateral line of fishes and other special organs of lower animals
.887 Anesthesia, hyperesthesia, synesthesia
.89 Sympathetic nervous system
   .8903 Trofic action
   .8905 Reflex phenomena
.891 Cervical ganglions and plexus
.892 Thoracic  "  "  "
.893 Abdominal  "  "  "
.896 Action on eyes; iris
   See also 612.8422
.897 Action on hart
   See also 612.782
.898 Action on digestiv tract; alimentary canal
   See also 612.3 and special subdivisions
.899 Effect on blood vessels
   See also 612.18
613 Personal hygiene

Care of Health; Prophylaxis; Individual Health; Laws of Health.

.02, Compends; .03, Dictionaries, Cyclopedias; .04, Essays; .05, Periodicals; .06, Societies; .07, Study and Teaching; .08, Sanitary Appliances; .09, History, Description, Reports, etc., divided like 930-999.

.1 Air and Light.

For Air Analysis, see 543.7; Air Pollution, 614.7; Ventilation, 628.8.

.11 Climate. Acclimation. See 551.5, Meteorology; 615.834, Therapeutics; 614.42, Geographical distribution of disease.


Regions exempt from special diseases.

.13 Seasons. Time of Day.


.15 Purification of Air.

.16 Special Influences. Ozone, Electricity, etc.

.17 Quantity of Air Necessary.

.18 Temperature. See also 536.5, Heat; 551.52, Meteorology.

.19 Sunlight.

.2 Food. Dietetics.

For Food Analysis, see 543.1; Adulterations, 614.31; Digestion and Nutrition, 612.3.

.21 Dietaries.

Including food for special classes of people; literary men, soldiers, etc.

.22 Food for Infants.

.23 Food for the Sick.

Including means for giving nutrition, baths, enemata, forced alimentation, etc.


.25 Excess of Food.

.26 Vegetable Food.

.27 Fruits.

.28 Animal Food. Meats.

.29 Fish, Oysters, etc.

.3 Beverages.

For alcoholic beverages, see 613.81 and 178, Temperance Ethics; Inspection of beverages, 614.34.

.31 Water as a Beverage.

.32 Impurities in Water and Ice. See also 628.16, Water supply of towns.

.33 Microscopical Analysis. For Chemical Analysis, see 543.3.

.34 Biological Analysis.

.35 Purification. Filtration, Boiling, Chemical, etc. See also 628.16, Water Supply.

.36 Cold Drinks.

.37 Hot Drinks. Tea, Coffee, etc. See also 614.347, Adulterations.

.38 Mineral Waters, Carbonated Waters, etc. See also 614.348, Adulterations; 615.79, Therapeutics.

.39 Other Beverages.
Cleanliness of Body. Clothing.
See also 646, Clothing, Toilet, etc.; 391, Customs, Care of Person, Bathing, Toilet. For Therapeutic baths, electric, sulphur, etc., see 615.67.

.41 Baths.

.42 Warm.

.43 Cold. For Swimming, see 796.

.44 Douche or Shower.

.45 Sea. Salt.

.46 Hot Air. Turkish. Russian. Roman, etc.

.47 Public.

.48 Clothing.

1. Material, wool, cotton, etc.
2. Quantity.
3. Cleanliness.
4. Pressure. Corsets, garters, tight boots, support from hips, etc.

.49 Care of special parts of body.

.5 Human Habitation and Resort.

For Heating, see 697; Ventilation, 628.8; House drainage, 628.6; Sanitation of towns, 628.4; Industrial sanitation, 628.5.

These subjects, partly Public and partly Private Hygiene, are for convenience grouped together here.

.51 Homes.

.52 Hotels.

.53 Tenements.

.54 Schools. Colleges. See School hygiene, 371.7.

.55 Churches, Theaters, Halls, etc.

.56 Hospitals. Asylums.

.57 Prisons. Reformatories.

.58

.59 House Furnishing.

1. Bed and Bedding.
2. Curtains. Tapestries.
5. House Cleaning.

.6 Hygiene of Employment.

For Labor of children, see 331.3; Mining dangers and accidents, 622.8; see also Laboring classes, 331.8; Industrial sanitation, 628.5; Nuisances, 614.7.

.61 Over-hours. Over-work.

Occupations made Injurious.

.62 By Inhalation of Vapors and Gases.

Bleachers, match-makers, lard refiners, etc.

.63 By Inhalation of Dust or by Absorption.

Grinders, stone-cutters, millers, wool operatives, hair pickers, type founders, grocers, etc.

.64 By Elevated, Low, or Variable Temperature.

Bakers, forgemen, mariners, fishermen, farmers, laborers, etc.

.65 By Over-use of certain Organs. By Constrained Attitude and Sedentary Life.

Engravers, public speakers, copyists, printers, salesmen, clerks, literary men, etc. See also Mental hygiene, 131.

.66 By Accidents. See Public health, 614.8, Protection from accidents.

Machinists, quarrymen, caisson-workers, manufacturers of explosives, etc.

.67 Military Hygiene. Barracks, Camp and Tent Life.

.68 Naval Hygiene. Ship Life.

.69 Hygiene of Travel and Exploration.
613.7 Hygiene of Recreation and Sleep.

- .71 Gymnastics. See also 371.73, School Hygiene, Care of Body
  For Curative gymnastics, see 615.82, Massage.
- .72 Athletics and other Muscular Exercise.
  See also 796, Out-door sports.
- .73 Training and Overstrain. See also 371.75, Championship games.
- .74 Amusement or Play.
  See also 796, Out-door sports, and 371.74, Recreations.
- .75 Parks.
  Some subjects more properly placed in Public Health, are grouped here by
  attraction.
- .76 Vacations. See also 371.23, School Vacations.
- .77 Holidays. See also 371.23, School Holidays.
- .78 Rest and Sleep. Late Hours. See 613.86, Insomnia.

.8 Hygiene of Nervous System.
  Including the action of Stimulants and Narcotics. See also 615.78, Drugs
  acting on Nervous System; 615.95, Neurotic Poisons.
  For Mental overwork, see 131, Mental Hygiene. See also 178, Temperance.
- .81 Alcohol. See also Temperance, 178; Beverages, 613.3; Inspection of Bever-
  ages, 614.34.
- .82 Opium and Hashish. See also 178.8.
- .83 Chloral and Caffeine. See also 178.8.
- .84 Tobacco. See also 178.7.
- .85 Other Narcotics.
- .86 Insomnia. See also 613.79, Rest and Sleep.
- .87 Morbid Habits. Bad Social Customs. See also Social Ethics, 177.
- .88 Luxury. Privation.
  See also Polygamy and Monogamy, 173.2; Sexual Ethics, 176; Celibacy of
  Clergy, 254; Asceticism, 248.

.9 Hygiene of Offspring. Heredity.
  See also Heredity, 575.1.
- .91 Congenital Defects of Body.
  See also Monstrosities, 573.9; and Orthopaedic Surgery, 617.3.
- .92 Inherited Mental Disability.
  See also Mental heredity, 136.3; Mental derangements, 132; and Mental
  physiology and hygiene, 131.
- .93 Transmitted Disease.
  See also special diseases in 616.
- .94 Stirpiculture.
Public helth

Public hygiene  Public sanitation  State medicin  Preventiv medicin
See also 628, Sanitary engineering; 352.4 Boards of helth
.02 Compends .03 Dictionaries, cyclopedias .04 Essays .05 Periodicals .06 Societies, conventions .07 Education .08 Sanitary appliances, exhibitions .09 History, description, legislation, reports, etc. divided like 930-999, e. g. 614.0942
Public helth in England

.1 Registration and vital statistics  See also 312 Population
.11 Births and birthrates
.12 Deths and dethrates
Divided geograficly like 930-999, e. g. Dethrate in England, 614.1242
.13 Mortality at different ages
For life insurance, life tables, biometry, etc. see Life insurance, 368.3, and Life contingencies, 519.5; Longevity, 612.68
.131 Stillbirths
.132 Infant mortality
.133 Mortality in childhood
  "  " adult life
  "  " old age
.134
.135
.14 Mortality of sexes, races, etc.
  "  " the sexes
  "  " males
  "  " females
  "  " races: colored, white, indian, etc.
  "  " city and country
.144
.145
.15 "  " different occupations  See also 613.6
.16 "  " from special diseases  Causes of deth
.17 Marriage
.18 Divorce  See also 173.1 Family ethics

.2 State control of medicin
.21 Medical education and degrees  See 610.7; 378.2 Academic degrees
.22 Anatomy and vivisection laws  See 179.4 Ethics
.23 Expert testimony and other medico-legal relations
  See 340.6 Medical jurisprudence
.24 Registration of physicians, dentists, pharmacists, etc.
  License to practis
.25 Regulation of medical practis
  See 174.2 Professional ethics, physicians
.26 Quackery and malpractis
.27 Nostrums and patent medicins  See also 614.353 Adulterations
.28 Sale of poisons  See 615.9 Toxicology
.29 Medical police
Adulterations: inspection of articles liable to affect public health

Public analysts  State laboratories  For chemic analysis see §43

Inspection of food  For chemic analysis see §43.1; Hygiene §13.2

• Sugars  Syrups  Confectionery
• Cereals  Starches  Bred
• Lards  Fats  Oils  See §13.25-6 Butter, oleomargarin
• Spices  Condiments
• Yeast  Baking powders  Cream of tartar
• Fresh food  Vegetables, fruits
  Meats  Fish  (fresh)
• Cand or preservd food  Vegetables, fruits
  Meat  Fish  Oysters  (preservd)
• Milk and milk products
  Milk analysis  See also chemistry, §43.2
• Milk of known purity
• Milk sold to consumer
• Cream  Skimd milk  Condenst milk  Buttermilk  Kumiss
• Butter and its imitations
• Oleomargarin
• Cheese and its imitations
• Other articles of food

Inspection of beverages
For chemic analysis see §43.1; hygiene, §13.3

• Fermented
  Wine
• Brewd
• Beer
• Distild
• Fruit drinks: lemonade, shrub, etc.
• Tea  Coffee  Chocolate  Cocoa  See also §13.37, Hygiene
• Mineral waters  Soda water
  See also §13.38, Hygiene; §13.79 Therapeutics
• Mixt drinks

Inspection of drugs  For chemic analysis see §43.4

• Officinal or pharmacopeial drugs
• Nonofficinal drugs
• Empiric or patent medicines  See also §13.27 State control
• Cosmetics
• Poisonous cosmetics

Inspection of tobacco

Inspection of pigments, wall and other papers, textil fabrics, toys, etc.
Contagious and infectious diseases: general

Causes and origin
See 589.95 Bacteria, microbes; 616.01 Germ theory of disease

Geographic distribution Climatology

Modes of propagation and communication

Prevention and restriction See also Ambulances, 614.882

Isolation, lazarettos, etc.

Quarantine, etc.

Maritime quarantine

Inland

Control of rags, etc.

Protective inoculation

Against smallpox See also 616.912, Pathology

Vaccination

1 Bovine vaccination
2 Humanized vaccination
3 Vaccinal syphilis
4 Revaccination
5 Vaccination
6 Revaccination
7 Retrovaccination
8 Compulsory vaccination
9 Optional vaccination

Antivaccination

Against cholera See also 616.932, Pathology

" yellow fever See also 616.928 Pathology

" hydrophobia Pasteurism

See also 616.953 Pathology

Disinfection

Houses, clothing, rags, workshops, cars, ships, camps, air, soil, persons
sewers, vaults, excreta. Ded, see 614.64 Embalming, etc.

Fumigating and other apparatus

1 Stationary
2 Portable

Disinfectants Antiseptics Deodorizers

Treated with reference to public health. See also Materia medica
615.777 and 615.778

Heat

Chemical disinfectants

Carbolic
Salicylic
Chlorids
Copperas

Epidemics Plagues
Contagious and infectious diseases: special
These beds are for public health discussions only. For treatment, etc. see Pathology, 616

.51 Filth diseases
    .511 Typhoid or enteric fever
    .512 Diptheria
    .513 Diarrheal diseases
    .514 Cholera
    .515 Cholera-infantum
    .516 Dysentery
    .517 Diarrhea

.52 Exanthemata
    .521 Smallpox
    .522 Scarlet fever
    .523 Measles
    .524 Rötheln, rubella, rubeola
    .525 Chickenpox
    .526 Typhus

.53 Malarial fevers
    .531 Intermittent fever
    .532 Remittent fever

.54 Other contagious and infectious diseases
    .541 Yellow fever
    .542 Phthisis
    .543 Whooping cough
    .544 Mumps
    .545 Puerperal fever See also 618.72
    .546 Leprosy
    .547 Syphilis
    .548 Gonorrhea

.55 Parasitic diseases

.56 Diseases communicated from lower animals
    .561 Anthrax Charbon
    .562 Trichiniasis
    .563 Hydrophobia
    .564 Glanders

.6 Disposal of the dead
    See customs, 393 Treatment of the dead
    .61 Burial
    .611 Earth burial
    .612 Tomb burial
    .613 Burials in churches Intramural
    .614 Use of perishable coffins
    .62 Cremation Crematories
    .63 Transportation of the dead
    .64 Embalming and disinfection of the dead Use of ice See 614.48 Disinfection; 615.777 Disinfectants
    .65 Effect of cemeteries on health
    .651 By water pollution
    .652 " air "

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Hygiene of the air and ground  Nuisances

See 613.1 Air (Hygiene); 613.6 Hygiene of employment; 628.5 Industrial sanitation

.71 Air pollution by dust and smoke  works
.72 Air pollution by noxious gases, mineral trades, chemic
  .721 Carbon compounds
  .722 Carbonic oxid, carbonic acid, carburetted hydrogen
  .723 Illuminating gases  Gas works
  .724 Mineral oil refining
  .725 Sulfur compounds
  .726 Chlorin  
  .727 Nitrogen  
  .728 Phosphorus  
  .729 Other

Air pollution by vegetable trades
  .73 Brewing
  .731 Distilling
  .732 Vinegar making
  .733 Sugar refining
  .734 Charcoal burning
  .735 Varnish making

Air pollution by animal trades
  .74 Slaughter houses  Abattoirs  Fish
  .741 Rendering works  Boneboiling  Tripe and gut cleaning
  .742 Pork packing  Lard refining
  .743 Soap making
  .744 Tanning
  .745 Glue making
  .746 Lampblack
  .747 Commercial fertilizers
  .748 Storage and handling of noxious and offensiv materials
  .75 Other air pollutions  See 628 Sanitary engineering
  .76 Stables  Stable manure
  .761 Hog styes
  .762 Offal  Ded and diseased animals and fish
  .763 Vaults  Cesspools  Water closets, privies, urinals, night soil
  .764 Sewers and sewer outlets  Sewer gas
  .765

Conditions of soil as affecting helth
  Topografi  Sanitary  Surveys
  .771 Analysis of soils  See 543.7 Chemistry
  .772 Soil moisture
    Hygiene of natural water courses and of marshes.  See 613.14 Hygiene
  .773 Ground atmosphere  See 613.14 Hygiene
  .774 Solid constituents of soil
  .775 Malarious soils  See 613.14 Hygiene
  .776 Recovery of soils from pollution

Air and ground in towns
  .78 Laying out of towns and streets
  .781 Subways and elevated ways  See 628.47 Sanitation of towns
  .782 Parks  Air spaces
  .783

Hight of bildings and proportion of occupiable area
  See 614.85 Biling laws
Protection of human life from accidents, casualties, etc.

See 613.66 Hygiene of employment

Drowning

Rescue of the drowning

Resuscitation of the drowned

First help

Pulmotors

Suffocation

By gases, in vaults, mines, etc.; see also 622.8 Mining dangers. By illuminating gases

Explosions

Manufacture and storage of explosives and combustibles

See 662 Chemic technology

Gunpowder

Dynamite, etc.

Inspection of kerosene, etc.

" of illuminating gas

" of electric apparatus

" of steam boilers

Fires

Fire prevention

" detection

" extinction

See 352.3 Fire department

Automatic

Chemic extinguishers

Fire engines

Water towers

See 621.68 Pumping engines

" escapes and other apparatus

" exits, etc. from public buildings

Bilding laws

Inspection of buildings

See 614.784 Height of buildings

Protection of travelers

Travel on land

" highways

" railroads

" water

Lighthouses, buoys, etc.

Pilots

Boats, life preservers, etc.

Rescue of shipwrecked

Lifesaving services

Exposure to cold

Hospice of St Bernard

Aid to injured

Ambulance

Ambulance for contagious diseases

See also 614.44

Bed wagon

Hygiene of animals

Veterinary sanitation

Infectious diseases of domestic animals

Parasites of animals

See 591.69 Economic zoology

Animal diseases communicable to man

See also 614.50

Care and housing of animals

Feeding of animals

Transportation of animals

Methods of slaughtering

Painless extinction of animal life
Materia medica and therapeutics

Compends .05 Pharmaceutic journals .06 Pharmaceutic societies .07 Education, schools of pharmacy .09 History

Materia medica Drugs Pharmacology
For examining boards, laws, etc. see 614.24 Registration of pharmacists. See also 614.35 Adulteration of drugs; 543.4 Chemic analysis

Pharmacopoeias
Dispensatories
Formularies
Prescription writing Posology

Inorganic drugs
Divided like 546. 615.218 Phosphorus; 615.258 Mercury; 615.272 Iron. See also note to 615.7

Organic drugs
See also note to 615.7
Carbon compounds Divided chemically like 547
Vegetable products Divided botanically like 580
Vegetable products Divided by character 1 Starches 2 Sugar 3 Glucosids 4 Tannins 5 Gums 6 Drugs containing alkaloids 7 Bitters 8 Organic acids

Fixt oils and acids
Ferments: diastase, pepsin, etc.
Organotherapy
Serotherapy

Pharmacopoeias
Dispensatories
Formularies

Materia medica Drugs Pharmacology
For examining boards, laws, etc. see 614.24 Registration of pharmacists. See also 614.35 Adulteration of drugs; 543.4 Chemic analysis

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Organotherapy
Serotherapy

Practical pharmacy

Therapeutics Action of medicines in general
Certainty of medicines
Antagonism of medicines
Law of similars Homeopathy
Homeopathic works are clasped with the subjects treated. This is for Hahnemann's theory only

Influence of age
Infant therapeutics Therapeutics of old age

Influence of sex

Influence of environment

Influence of idiosyncrasy

Administration of medicines
By stomach
" rectum
" subcutaneous tissue Hypodermic medication
" lungs Inhalation See also 612.385 Absorption
" veins Transfusion of blood
" serous and mucous membranes Peritoneum, vagina, etc.
See also 612.387 Absorption
" skin Baths
See also physiology 612.384
Medicins group by effects

Treatises on specific drugs, digitalis, ergot etc. are class in the divisions of materia medica, 615.2-615.3; iron, 615.272; digitalis, 615.3238.

- 71 Drugs acting on circulatory system
  - 711 Stimulants
    - Alcohol, ammonia, digitalis, coffee, ergot
  - 716 Depressants
    - Aconite, veratrum group, nitrites

- 72 Drugs acting on respiratory system
  - 721 Expectorants
  - 726 Errhines Sneezing

- 73 Drugs acting on digestive system
  - 731 Emetics
    - Ipecac, mustard, metallic salts, apomorphin
  - 732 Cathartics
    - 1 Laxatives 2 Salines 3 Purgatives 4 Hydragogs 5 Drastics
    - 6 Mercurials
  - 733 Anthelmintics
  - 734 Aids to digestion
    - 1 Bitters, tonics 2 Ferments, pepsin, pancreatin, etc. 3 Acids, antacids
  - 735 Dennulcents, emollients, etc.
    - Bismuth, oxalate of cerium, etc.

- 74 Drugs acting on glandular system
  - 741 Sialogogs (Saliva)
  - 742 Cholagogas (Bile)
  - 743 Diaphoretics (Perspiration)
    - Pilocarpin, heat, exercise
  - 75 Antipyretics Antiperiodics
    - Quinin, salicylates, coal-tar products, kairin, antipyrin, antifebrin, cold, baths. See also 613.4 Bath

- 76 Drugs acting on genito-urinary system
  - 761 Diuretics
    - Water, citrates, acetates, digitalis, caffein, copaiba
  - 766 Uterins Oxytocics
    - Viburnum, ergot, etc.

- 77 External agencies
  - 771 Irritating
  - 772 Astringents
  - 773 Rubefacients
  - 774 Epispastics Blisters
  - 775 Escharotics Caustic potassa
  - 776 Protectiv Emollient
    - Fats, oils, powders, starch, bismuth, oxid of zinc
  - 777 Deodorants Disinfectants
    - See 614.48 Disinfection; 614.64 Disinfection of deg
  - 778 Antiseptics Germicides
615.78 Drugs acting on nervous system See also 615.95 Neurotic poisons
.781 Anesthetics Chloroform, ether
.782 Hypnotics Chloral, bromids
.783 Analgesics Opium
.784 Mydriatics Belladonna
.785 Excitants Strychnin
.786 Depressants Conium
.788
.789 Other drugs
Camphor valerian, asafetida
Mineral waters See also 613.38 Hygiene; 553.7 Occurrence in nature
.8 Other remedies
.81 Mechanical remedies
.811 Bloodletting Venesection Cupping
.812 Setons and issues
.813 Bandages Ligatures
.814 Acupuncture
.815 Pneumatic aspiration
.82 Manipulation Massage Osteopathy
See also 613.71 Gymnastics
.83 Imponderable remedies
.831 Light Blue glass
.832 Temperature: heat, cold
.833 Moisture
.834 Climate See also 613.1 Hygiene
.835 Altitude
Decrease of oxygen and increase of nitrogen with increasing elevation
.836 Pneumatic differentiation
.837 Music
.84 Electricity Electrotherapeutics See also 537.87 and 621.3915
.85 Cures
.851 Mind cure Influence of mind on body
See also 130 Mind and body
.852 Faith cure Christian science See 265.8 Religion
See also state control of medicine, 614.24; Christian science theology, 230.99; sects 289.9
.853 Hydrotherapy Water cure
.854 Food cures: grapes, milk, beef, etc.
.855 Thomsonianism Herb doctors
.856 Perkinism Metallic tractors
.86
.87
.88 Patent medicines
.89 Ancient and medieval remedies
Including those of modern uncivilized peoples
**Toxicology**  
Poisons

For detection of poisons, see 543.5; Sale of poisons, 614.28; Poison wound 617.148

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.91 Irritant poisons

.92 Mineral irritants

.921 Acid poisons

.922 Alkalin poisons

.923 Nonmetallic poisons

.924 Phosphorus See also 615.218 Drugs

.925 Metallic poisons

.926 Arsenic See also 615.219 Drugs

.927 Mercury See also 615.238 Drugs

.928 Led Painters colic See also 615.231 Drugs

.929 Copper See also 615.236 Drugs

.93 Vegetable irritants

Hellebore, aloes, croton oil, etc.

.94 Animal poisons

Cantharides, diseased meat, ptomains, tyrotoxicon, etc.

.95 Neurotic poisons

See also 615.78 Drugs acting on nervous system

.96 Cerebral or narcotic poisons Carbonic acid and acid

.961 Opium

.962 Prussic acid

.963 Cyanids

.964 Alcohol

.965 Ether

.966 Chloroform

.967 Chloral hydrate

.97 Spinal poisons

Nux vomica, strychnia

.98 Cerebrospinal poisons

Aconite, belladonna, lobelia

.99 Cerebrocardiac poisons

Digitalis, tobacco
Pathology Diseases Treatment

May be subdivided by 6 10, if wisht. Use 616.01 for etiology, germ theory, classification of diseases. Use 616.07 for diagnosis, study of disease, and subdivide it as follows: 1 Pulse 2 Tung 3 Eye, skin, etc. 4 Auscultation, percussion 5 Thermometry 6 Chemistry, urin analysis 7 Microscopy 8 Pathologic anatomy 9 Postmortem examination

.1 Diseases of circulatory system
.11 Membranes of the heart
.12 Hart Angina pectoris
.13 Arteries
.14 Veins
.15 Blood

.2 Diseases of respiratory system
.201 Croup
.202 Hay asthma, hay fever
.203 Influenza, epidemic catarrh
.204 Whooping cough See also 614.543
.205 Coryza, catarrh
.206 Asphyxia
.21 Nose Naso-pharyngeal space
.22 Larynx
.23 Trachea Bronchi Bronchitis Asthma
.24 Lungs
.241 Pneumonia, lung fever
.242 Congestion
.243 Hemorrhage
.244 Abscess
.245 Gangrene
.246 Phthisis, consumption See also 614.542
.247 Embolism and aneurism of pulmonary artery
.248 Emphysema
.249 Collapse
.25 Pleura Pleurisy

.3 Diseases of the digestiv system
For diseases of teeth see 617.6
.31 Mouth: tung, fauces Sore throat, quinsy, mumps See also 614.544
.32 Pharynx Esophagus
.33 Stomach Gastritis, dyspepsia, vomiting
.34 Intestins Hernia, diarrhea, constipation, colic
.35 Rectum Anus Piles
.36 Liver Gall bladder Jaundis
.37 Pancreas
.38 Peritoneum Omentum Mesentery Peritonitis
.39 Dietetic diseases
Surfit, starvation, scurvy, dyspepsia
616.4 Diseases of the lymphatic system
   .41 Spleen
   .42 Lymphatics: thoracic duct
   .43 Thymus
   .44 Thyroid body Goiter, Graves disease
   .45 Suprarenal bodies

5 Dermatology Skin diseases
   .51 Inflammatory affections
      Diffuse, papular, scaly, nettle rash, hives
   .52 Catarrhal, vesicular, pustular Eczema, shingles
      See also 614.561
   .53 Disorders of sebaceous glands
   .54 Hypertrofies Atrofies
      Corns, warts, white hair, baldness
   .55 New formations Pigmentary changes
      Albinism, freckles
   .56 Disorders of sweat glands
   .57 Parasitic diseases See 616.96 Parasitic diseases
   .58 Other skin diseases
      Chilblain, frostbite, chaps

6 Diseases of genito-urinary system
   For diseases of women, see 618
   .61 Kidneys Ducts Bright's disease
   .62 Bladder Calculus
   .63 Urinary disorders Diabetes
   .64 Male urethra
   .65 Prostate
   .66 Penis
   .67 Scrotum
   .68 Spermatic cord Testes
   .69 Functional diseases of male generative organs Spermatorrhea, impotence

7 Diseases of organs of locomotion
   .71 Bones (except spine)
   .72 Joints (except spine)
   .73 Spine Curvature
   .74 Muscles
   .75 Tendons Fasciae
   .76 Bursæ Sheaths of tendons
   .77 Connective tissue

8 Diseases of nervous system
   .81 Diseases relating to cerebrospinal circulation Apoplexy
   .82 Diseases relating to cerebrospinal meninges
   .83 Structural diseases of brain and cord
   .84 Functional diseases of brain and cord
      For insanity see 132.1
   .841 Vertigo
   .842 Paralysis
   .843 Neurasthenia
   .844 Spinal irritation
   .845 Eclampsia, convulsions
616.85 Neuroses
.851 Chorea, St Vitus dance
.852 Hysteria
   See 135 Somnambulism, 132.4 Catalpsy, 132.3 Hypochondria
.853 Epilepsy
.854 Tetanus, lockjaw
.855 Aphasia
.856 Anesthesia, hyperesthesia
.857 Megrism, sick heake
.86 Neuroses due to special poisons
.861 Alchoholism  See also Dipsomania, 132.7
.862 Metallic tremor
.87 Diseases of nerves  Neuralgia, cramp
.88 Diseases of sympathetic system

.9 General diseases

.91 Infectious diseases
   Eruptiv fevers
.911 Small pox  See also 614.471 and 614.521
.912 Cowpox
.913 Chickenpox  See also 614.525
.914 Measles  See also 614.523
.915 Rubella, rubeola, rôtheln  See also 614.524
.916 Scarlet fever, scarlatina  See also 614.522
.917 Other fevers  General works on fevers
   See also 612.57 Animal heat
.92 Dengue, breakbone fever
.921 Typhus  See also 614.526
.922 Plague
.923 Relapsing fever, famin fever
.924 Cerebospinal fever
.925 Simple continued fever
.926 Enteric fever, typhoid fever  See also 614.511
.927 Yellow fever  See also 614.476 and 614.541
.928 Diphtheria  Cholera  Malarial fever
.93 Diphtheria  See also 614.512
.931 Asiatic cholera  See also 614.475 and 614.514
.932 Sporadic cholera
.933 Epidemic diarrhea  See also 614.517
.934 Dysentery  See also 614.516
.935 Malarial fever  See also 614.53
.94 Septic diseases
.941 Phagedena
.942 Erysipelas
.943 Pyemia
.944 Septicemia
Venereal diseases  Hydrophobia, etc.

.951  Syphilis  See also 614.547
.952  Gonorrhea  See also 614.548
.953  Hydrophobia  See also 614.477 and 614.563
.954  Glanders  See also 614.564
.955  Horsepox
.956  Splenic fever

Parasitic diseases  See also 614.55

.961  Animal parasites

See 591.69 Economic zoology; 614.92 Parasites of animals

.962  Entozoa
.963  Trematoda, flukes
.964  Cestoda, tapeworms
.965  Nematoda  Round worms, threedworms, trichinae

See also 614.562
.966  Acanthocephala, Thornheaded worms
.967  Insecta parasitica  Maggots
.968  Ectozoa
  1  Insecta parasitica: mosquitoes, gnats, bedbugs, fleas, lice
  5  Arachnida parasitica: mites, ticks
  8  Suctoria parasitica, leeches

.969  Vegetable parasites  See 581.69 Economic botany

.97  Effects of poisons  See 615.9 Toxicology

.98  Effects of injuries and climate

.981  Presence of foren bodies
.982  Mechanical injuries
.983  Excessiv exretion and strain
.984  Excessiv venery
.985  Privation
.986  Exhaustion
.987  Chemic agents
.988  Climate

.99  Other general diseases

.991  Rheumatism, rheumatic fever  Gout
.992  Tumors
.993  Nonmalignant: cysts, wens
.994  Malignant: cancer
.995  Tubercle
.996  Scrofula  Rickets
.997  Myxedema  Cretinism
.998  Leprosy  See also 614.546
Surgery

May be subdivided by o like 610, if wishes

.1 Injuries
.11 Burns and scalds
.12 Lightning and electric shock
.13 Contusions and abrasions
.14 Wounds
.141 Incised
.142 Contused
.143 Lacerated
.144 Punctured
.145 Gunshot See 617.99 Military surgery
.146 With lodging of foreign bodies
.147 With complete separation of parts
.148 Poison See 615.9 Toxicology
.15 Fractures
.16 Dislocations
.17 Sprains
.18 Asphyxia

.2 Results of injuries
Constitutional effects and other complications. See also 616.94 Septic diseases
.21 Shock
.22 Inflammation
.23 Abscess Sinus Fistula
.24 Ulcers Sores
.25 Mortification Gangrene
.26 Traumatic fever
.27 Tetanus See also 616.854

.3 Orthopedic surgery Deformities
For convenience the whole subject of deformities is clast here, tho many of them have no surgical treatment. See also 573.8 Dwarfs and giants; 573.9 Monstrosities; 613.91 Congenital defects
.31 Incomplete development or growth
Divided like 611 Anatomy
.32 Incomplete coalescence of parts: harelip
.33 Coalescence of parts
.34 Extension of commissure (Apparent duplication)
.35 Coalescence of fetuses Siamese twins
.36 Supernumerary parts or organs: extra fingers or toes
.37 Disproportionate growth of parts
.38 Transposition or displacement of parts
.39 Congenital distortions, including talipes, club foot

.4 Surgical operations
.41 Circulatory system
.42 Respiratory system
.43 Digestive system
.44 Glandular and lymphatic system
.45 Genito-urinary system
.46 Motor and integumentary system
.48 Nervous system
Regional surgery
- 617.5
  - 617.51
  - 617.52
  - 617.53
  - 617.54
  - 617.55
  - 617.56
  - 617.57
  - 617.58

Dentistry
- 617.6
  - 617.61
  - 617.62
  - 617.63
  - 617.64
  - 617.65
  - 617.66
  - 617.67
  - 617.68
  - 617.69

Ophthalmic surgery
- 617.7
  - 617.71
  - 617.72
  - 617.73
  - 617.74
  - 617.75
  - 617.76
  - 617.77
  - 617.78
  - 617.79

Diseases of the ear
- 617.8
  - 617.81
  - 617.82
  - 617.83
  - 617.84
  - 617.85
  - 617.86
  - 617.87
  - 617.88
  - 617.89

See 617.6, Dentistry; 617.7, Eye; 617.8, Ear

Artificial arms, hands, etc.
Artificial legs, feet, etc.

Myopia, shortsightedness, astigmatism, colorblindness, daltonism. See also physiology, 612.845
617 9 Operative surgery
   See 615.781 Anesthetics
   .91 Armamentaria  Surgical instruments
   .92 Orthopedic appliances  Splints, trusses, etc.
       See 617.3 Orthopedic surgery
   .93 Surgical dressings
   .94 Amputation  Resection
   .95 Plastic surgery
   .96
   .97
   .98
   .99

Military surgery

618 Diseases of women and children
1 Gynecology  Diseases of women
   .1 Ovary
   .11 Fallopian tube
   .12 Periuterin diseases
   .13 Uterus and cervix
   .14 Vagina
   .15 Vulva
   .16 Functional and symptomatic disorders
       Diseases of menstruation  Leucorrhea  Sterility
   .17
   .18
   .19

Diseases of breast

2 Obstetrics
21 Pregnancy  Physiology
   .22 Diagnosis  Signs of pregnancy
   .23 Duration
   .24 Hygiene  Management
   .25 Multiple pregnancy: twins, etc.

Pathology of pregnancy
   Diseases of pregnancy and their treatment
   .31 Ectopic gestation  Extra-uterin pregnancy
   .32 Pathology of ovum
   .33 Deth and retention of fetus
   .34 Pathology of fetal appendages
      Decidua
   .35 Placenta
   .36 Amnion
   .37 Umbilic cord
   .38 Abortion  Miscarriage  Stillbirth  Molar pregnancy
       See 173.4 Infanticide; 340.6 Medical jurisprudence; 343 Criminal law

4 Parturition  Labor  Physiology
   .41 Mechanism of labor
   .42 Presentations  Positions
   .43 Clinic course and phenomena
   .44 Conduct of normal labor  Management
Pathology of labor

Abnormal labor from faults

- of powers  Anomalies of expellent forces
- of passages  Mechanical obstacles to expulsion of fetus
- of child  Abnormalities of fetus  See 617.3 Deformities

Complications

- Hemorrhage
- Rupture or laceration of genital tract
- Retention of placenta
- Inversion of uterus
- Prolapsus funis
- Other complications

Puerperal state  Physiology

Management, including care of child

Pathology of puerperal state  Puerperal diseases

- Diseases of lactation: milk fever, mastitis, etc.
- Puerperal fever  See 614.545 Public helth
- Metritis  Peritonitis  See also 616.38  Cellulitis
- Septicemia  See also 616.944  Pyemia  See also 616.943
- Convulsions  See 616.845 Eclampsia
- Puerperal mania  See 132.1 Insanity
- Phlebitis  Venous thrombosis  Phlegmasia dolens
  See 616.14 Diseases of veins
- Other puerperal affections
- Sudden death after delivery

Obstetric operations

- Application of lever and forceps
- Version
- Embryotomy
- Dilatation of os and cervix
- Symphyseotomy
- Cesarian section
- Removal of placenta
- Induction of labor  Removal of ovum
- Intra-uterin injections  Antiseptics in midwifery

Pediatrics  Diseases of children

Comparative medicine  Veterinary

- Horses
- Cattle
- Sheep, goats
- Swine
- Poultry
- Birds
- Dogs
- Cats
- Other
620 Engineering
See also 690 Blding; 721 Architectural construction

SUMMARY

620.1 Applied mechanics  Engineering materials
621 Mechanical engineering
   .1 Steam engineering
   .2 Hydraulic engines or motors
   .3 Electric engineering
   .4 Air and gas engines and other motors
   .5 Pneumatic machinery  Refrigerating machines
   .6 Blowing and pumping engines
   .7 Mills  Factories  Engineering works
   .8 Millwork  Hoisting and conveying machinery
   .9 Machine tools
622 Mining engineering
623 Military and naval engineering
   .8 Naval architecture
624 Bridges and roofs
625 Railroad and road engineering
626 Canal engineering
627 River, harbor and general hydraulic engineering
628 Sanitary engineering
629 Other engineering industries

.01 Statistics
.02 Quantities and cost
.03 Contracts and specifications
.04 Designs and drawings
.05 Executiv
.06 Working and maintenance
.07 Laws and regulations
.08 Patents
.09 Reports

.1 Applied mechanics  Engineering materials
   Class here general works on materials with reference to their fitness in engineer-
   ing  See also 691 Blding materials

.11 Strength of materials  General theory
   General works considering various materials.  For particular materials see
   620.12-.19  Provision is made below for classing tests on 2 different bases:
   1) by character of test, 2) by material tested.  Class under material rather
   than under test when the two conflict.  See also note under 620.111.
   For theory or mechanics of structures see 624; for theories of construction of
   bldings see 690.1

.111 General
   This hed is left for specialists wishing to analyze general works or collect
   clippings and notes too limited for .11 yet not specific enough to be put
   with a particular test or material.  Libraries are unlikely to need any
   general hed except 620.11
Tests Factors affecting strength
Kinds of tests. Directions for making various tests, laboratory manuals
See note to 620.11
1 General: influence of temperature, selection of test pieces, etc.
2 Corrosion Weathering Protection against deteriorating influences
3 Elastic limit tests: plasticity, fatigue, deformation
See also 630.1146 Repeated stress
4 Tension, compression, torsion, flexure, shearing
Class here combined tests as well as general works covering these tests
If wished, subdivide farther as follows:
41 Tensil tests
42 Compression tests
43 Torsion
44 Flexure (transverse) tests
45 Shearing tests
46 Repeated stress tests
5 Impact Repeated shock tests
Crystallisation and formation of cleavage planes
6 Hardness tests
7 Special tests
Varying for different materials
8 Tests on special shapes and forms
82 Plates and structural shapes
Bars, rods, angles, beams: T, bulb, I, and channel beams
83 Columns, bilt columns Tubes, pipes, cylinders
84 Rollers Spheres, solid or hollow Ball bearings
85 Springs
86 Hooks Chains Hoops Rings
87 Rivets Bolts Screws Nails
Riveted joints of plates
88 Wire Wire rope Cables Hawses
89 Other forms
9 Other tests
.12 Tests of timber See note to 620.11
.13 Stone Cement Concrete
.132 Stone
.135 Cement
.136 Concrete
.137 Reinforced concrete
.139 Other: artificial stone
.14 Brick, tile, etc.
For glass see 666.1 Manufacture of glass, 691.6 Glass as a building material.
In engineering it is an accessory material not requiring a place under strength tests
.15 Masonry adhesives
Cement, mortar, plaster of paris, etc. See also building materials 691.5
Lime, plaster, cement
.17 Iron and steel
.18 Other metals
.19 Other materials
.195 Mineral: asbestos, mineral wool
.196 Asphalt Tar
.197 Vegetable: paper, hemp, etc.
.198 Animal: hair, hide, bone, etc.
.199 Compendes Handbooks Kent, Trautwine
.3 Dictionaries, cyclopedias
.4 Essays
.5 Periodicals
.6 Societies
.7 Study and teaching Instruments
.8 Tables and calculations
.9 History of engineering
Mechanical engineering

May be subdivided like 620.0 and by form numbers

Steam engineering

Subdivide like 620 and 620.0, but use 621.001 as below. Other generalities of steam engineering are in 621.11 and 621.18

Applied thermodynamics

Theory and use of steam in steam engin General energy considerations
Steam economy

General

Expansion, entropy; extension of expansion approaching vacuum (condensers) superheating, cylinder condensation, jacketing, etc. For condensers, superheaters, etc. see 621.197

Mechanism of steam engin

Design of engin parts

General

Types of engins: structural

Reciprocating engins in general. Types specified below are all reciprocating, except 1 Primitiv and 9 Other

Primitiv

Single acting

Double acting

According to transmission of motion

Direct connected

Indirect: beam connected

According to position

Horizontal

Vertical

Oscillating

Inclined

According to terminal pressure

Condensing

In early period called 'low pressure'

Noncondensing

In early period called 'high pressure'

According to expansion

Single expansion

Compound

Double expansion: cross compound

" " tandem "

" " angle "

Triple expansion

Quadruple expansion

Other types

Steam turbins

Better class 621.165

Rotary engins

Better class 621.166

Marine engins

For propulsion see 623.8 Naval architecture

General

See also 621.11 and 621.18

Types of marine engins

Primitiv

Inventions of Papin, Perier, Fulton, Stevens, etc

Beam and side lever engins

Horizontal, inclined, vertical engines

Oscillating

Launch engins

Other special engins

Marine steam turbins

See also 621.165
Locomotives

Theory of the locomotive

Adhesion  Tractive force  Horsepower

Tests

Types

Variations modifying tractive force and speed, and affecting more than
1 class of mechanism. For variations in steam apparatus (oil burning
locomotives, etc.) see 621.133 and 621.134

Primitiv forms

Types according to distribution of wheelbase and load

Express by Whyte nomenclature for wheel combinations

Types according to purpose

Freight or goods engins  Hog engin
Yard, switch or shunting engins
Passenger engins
Mountain "
Mining "
Other special locomotives

Peculiar types

Combined 'engin and coach wagon'

Types in different countries

Subdivided like 940-999; e.g. English locomotives 621.132942

Locomotiv boilers  Production of steam

Better clast in 621.1843, as boilers of locomotiv type serv many other
purposes For boiler management see 621.193

Combustion  Fuels  Petroleum  Fuel consumption

See also 621.1837

Grate and ashpit  Firebox  Stays

See also 621.1835

Shell and tubes

Smokebox and stack  Spark arresters

See also 621.1838

Exhaust pipe

Dome

Miscellaneous fittings

Gage cocks, safety valves, whistles, pumps, injectors, etc.

Engin of the locomotiv

Driving mechanism  Cylinders, pistons, rods
Steam distribution  Valvs and valv gears

Special types of valves and valv gear

Compound principle

Distribution in compound locomotives

Lubrication of locomotiv

Other parts of locomotiv: throttle, etc.

Running gear

Tenders

Design, weight, brakes, etc.

Appliances

Taking water without stopping; track tanks; water scoops

Miscellaneous parts

Cowcatcher or pilot, hedlight, whistle, bell, sandbox
Traction engines  Road locomotives
Selfpropelling engines for hauling over roads or ground, or doing other work by locomotion. For railway engines see 621.13. For stationary hauling engines see 621.16
Hauling may be accomplished either by engines applying their power directly and moving with the load, i.e. locomotiv (621.13) over rails; or traction engines (621.14) over ground or roads; or by engines applying their power indirectly thru cables, etc. and standing in a fixed position either temporarily (621.15) or permanently (621.16)

Theory  General

Boilers
Better clas in 621.18423; 621.143 if used is limited to discussion of those suitable to traction engines

Types  Traction engines for special uses
Compressing machines  Steam rollers
Agricultural: plows, reapers, etc.

Portable engines
Engines that may be moved from place to place, but that remain in a fixed position when working. If selfpropelling, the selfpropulsion is incidental.
For fire engines and other pumping engines see 621.64

Theory  General
Types, structural etc.

Boilers
Better clas in 621.18423. If used, limited to discussion of those suitable to portable engines

Portable engines for special purposes
Hoisting, dredging, drilling, etc. See also 621.86 Hoisting and conveying machinery; 621.68 Fire engines; 627.7 Dredges

Agricultural: threshers, etc.

Semistationary engines  Various types

Stationary engines
Engines fixed in position; e.g. those running factory machinery, cables, elevators, etc. For management see 621.193. For boilers see 621.18424

Theory and general
Types by use: hauling, dredging, etc.
For pumps see 621.64. For types clas by engin mechanism see 621.164

Stationary boilers
Better clas in 621.18424 with only reference here

Types according to characteristics of engin mechanism or steam distribution
When mechanism and steam distribution conflict, class according to mechanism; e.g. compound releasing-gear engines 621.1644 rather than 621.1647. Each type may be subdivided like 621.11; e.g. vertical throttling engines 621.1642244

General
Throttling engines
Automatic shaft governor engines
Releasing gear (Corliss) engines  Drop cutoff
Single acting engines: Westinghouse or Willans type
Simple engines
Compound engines, triple expansion, etc.
621.165 Steam turbins

See also 621.123 Marine steam turbins

1 Theory
   Methods of calculation
2 Types
   Velocity turbins
3 Construction  Details of design
   Vanes  Buckets
   Guide vanes  Noses
   Rotor  Discs
   Valves, governors, safety devices
4 Thrust balancing
5 Mass
6 Casing, etc.
7 Bearings, etc.

1.66 Rotary engines

1.69 Steam generation and transmission

Fuels, furnaces, boilers, piping, power plants
For steam heating see 697.5

1.81 General

1.82 Fuels  Combustion

2 Fuels for boiler heating
   For fuels in general and fuel analysis see 662.6
22 Solid fuels: coal, lignite, wood, sawdust, peat
23 Liquid fuels: tar, petroleum, alcohol
24 Gaseous fuels: gas from blast furnaces, coke ovens; natural gas
25 Composit fuels: city refuse, coal dust, trash
3 Fuel consumption
   Practical experiments with a single fuel
4 Comparative consumption
   Practical experiments with various fuels

183 Furnace  Draft

1 General
   Heating and grate surfaces
2 Types of furnaces
3
4
5 Furnace parts and construction details
   Grates
   Stationary grates
   Shaking, dumping and step grates
   Ashpits  Furnace doors
   Burners for liquid fuel
6 Mechanical stokers
   With traveling grate
   " rocking"
   "  step grate (Roney grate)
   "  plunger"
66 "  screw
7 Other appliances
   Pulverized fuel appliances
37 Fuel and ash conveyers  Ash removers
   See also 621.86 Hoisting and conveying machinery
8 Chimneys  Stacks  Draft appliances
   Smoke consumers.  For smoke prevention see 621.1941 Firing
   Natural draft  Dampers  Uptakes
84 Induced draft
85 Forced draft
Boilers

For boiler plants see 621.19

### General

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### Boiler construction

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### Boiler accessories

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### Steam transmission and distribution

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<td>Drains and traps Receivers and distributing valves</td>
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<td>Covering Insulators Nonconductors for high, low and medium temperatures</td>
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See also 697.5 Steam heating

### Steam boiler and power plants

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<td>Wear Corrosion Steam plant accessories Economic appurtenances</td>
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<td>2</td>
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<td>Pumps Injectors Return traps</td>
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<td>7</td>
<td>Instruments Indicators, tachometers, gages, dynamometers, thermometers, pyrometers, lubricators, etc.</td>
</tr>
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621.2 Hydraulic engines or motors

Industrial use of water as motive power, including machines run by water under pressure produced by accumulators and also constructions and appliances for distributing and regulating supply of water to motors. For hydraulic engineering (dam, breakwater, etc.) see 627; for pumps see 621.6; for reservoirs, aqueducts, etc. see 628.1; for theory of mechanics of liquids see 532.

.21 Water wheels

Theory, classification, parts (e.g. paddles, vanes, buckets) water gates, cr.

.22 Overshot or bucket wheels

.221 Overshot wheels of low velocity

.222 Overshot wheels of high velocity

.223 Brest wheels

.224 Fairbairn wheels

.225 Sluice gate or Sagebien wheels

.23 Undershoot or impulse wheels and floating wheels

.231 Ordinary undershot wheels

.232 Wheels with curved vanes or buckets

.233 Pelton wheel

.234 Vertical impulse wheels

.235 Current suspension wheels

.236 Floating wheels

.24 Turbines

See also 621.65 Steam turbins

.241 General: parts (e.g. distributors, buckets, guide vanes, regulators

.242 Reaction or pressure turbins

.243 Outward flow

.244 Early forms: Barker's mill

.245 Inward flow

.246 Downward flow

.247 Impulse or Girard turbins

.25 Water pressure engines

Accumulators

.252 Hydraulic pumps

.253 Piping for high pressure

.254 Accumulators

.26 Hydraulic machinery and appliances

For theory see 532.81

.262 Funicular engines

Hydraulic tackle

.263 Hoists

Elevators

Cranes

Class preferably in 621.86; i.e. purpose outweighs motive power

.264 Special handling and lifting machinery for steel works, etc.

.266 Presses

Forging and stamping machines

.267 Accessories: injection pumps

.269 Mining, tunneling and other hydraulic appliances

Hydraulic giant, Brandt's hydraulic gun

.27 Hydraulic rams

For theory see physics 532.83

.272 Lifting rams

Montgolfier ram, Bolle ram, etc.

.273 Pumping rams

Leblanc ram

See also 621.64 Pumps

.274 Compressing rams

Sommelier ram

.29 Flood gates

Dams

Mill sluices

Hed and tail races

Adaptation to hydraulic motors. For methods and principles of construction see 627.8 Hydraulic engineering
Electric engineering

SUMMARY

621.31-7 Heavy current engineering
  .31 Generation of electricity
    .311 General
    .312 Central stations
    .313 Dynamolectric machinery
    .314 Stationary induction apparatus
    .315 Electrostatic apparatus
    .316 Accessories and parts
    .317 Control and central station wiring
    .318 Transmission
    .32 Electric lighting
    .33 Electric traction
    .35 Voltaic cells and batteries
    .36
    .37 Electric measurements and testing
    .38 Weak current engineering
      .382 Telegraphy
      .384 Wireless communication
      .385 Telephony
      .39 Other applications of electricity

621.31-.37 Heavy current engineering

.31 Generation of electricity  Dynamolectric machinery
  Transformers  Transmission
  General
  .312 Central stations: metropolitan, rural
    Divided by 001-009 like 621.3 with the following additions to 006:
    006 Working and maintenance
    4 Operation and running
    5 Regulation and control
    8 Testing
    9 Repairs and renewal
      Administrative point of view; a specific repair belongs with
      the part repaired

.31213 General central stations
  Combined power, traction, light, etc. stations
  132 Steam driven
  133 Gas
  134 Hydraulic
  135 Composit
  2 Stations for lighting only
    Divided by source of power like 621.31213

  3 Stations for traction only
    Divided like 621.31213

  5 Storage battery pressure regulating equipment

  6 Substations
    63 Transformer substations
    64 Converter
    95 Accumulator
Dynamoelectric machinery

1 General; construction, installation
2 Direct or continuous current machinery
21 Theory
22 General types
23 Continuous-current generators
   2 Series wound  3 Shunt wound  4 Compound wound
24 Continuous current motors
   Subdivided like 621.31323 above
245 Constant speed motors
246 Multispeed motors
247 Adjustable speed motors
248 Varying " " (railway motors)
25 Continuous-current converters
26 Dynamotors and motordynamos
27 Compensators or balancers
28 Continuous-current boosters
29 Other
291 Acyclic or homopolar machines

Alternating-current machinery

3 General types of alternating current machinery
321 Single phase machinery
322 " " "
323 " " "
325 Other polyphase machinery
4 Synchronous machinery
41 Theory
42 General types
43 Alternating-current generators
44 Synchronous motors
5 Alternating-current converters
51 Theory
52 General types  Description
53 Synchronous converters
54 Phase converters
55 Frequency converters
56 Double-current generators
57 Motor converters
6 Asynchronous machines
61 Theory
62 " " motors
63 Induction generators
64 " " motors
65 Series alternating-current motors
66 Repulsion motors
67 Frequency converters
68 Phase converters
7 Rectifying apparatus
72 Mechanical rectifiers
73 Arc "
74 Electrolytic "
Stationary induction apparatus

1 Theory
2 General types and description
3 Transformers
31 Constant-current transformers
32 Constant-potential transformers
34 Phase-changing transformers
38 Meter transformers
4 Auto transformers
5 Potential regulators
51 Compensator potential regulators
52 Induction
53 Magneto
6 Reactors or choke coils
7 Induction coils

.315 Electrostatic apparatus: condensers
.316 Details of electric machinery Parts
Armatures, field cores, etc.

.317 Central station wiring Control devices and switchboards
For meters and measuring instruments see 621.37

1 General
2 Panels
22 Generator panels
23 Motor
24 Feeder
25 Transformer
26 Converter
27 Lighting
28 Accumulator
3 Switches
31 General
32 Knife switches
33 Dial
34 Plug
35 Oil
36 Circuit breakers
4 Rheostats and control devices
5 Signal devices
6
7 Barriers and compartments
8 Station protective devices (fuzes, lightning arresters etc.)

.318 Manufacturing processes
Processes peculiar to electric machinery and apparatus: e.g. insulating varnishing, baking, armature stamps and dies
Transmission of electric energy
Limited to transmission of current from control to substations (stepdown transformers) and to questions common to all lines. For transmission systems for a special application see subject; e.g. traction lines 621.339

General

Systems

Direct or continuous current systems
Including 2 wire systems

3 wire (or Edison) and other

Other direct current systems

Alternating current systems

Single phase systems

2 phase (or quarter phase) systems

3 wire system

4 " "

3 phase systems

Delta or mesh connections

Star or Y connections

Other polyphase systems

Composit systems

Direct and alternating current combined

Lines and conductors

For local wiring see specific application; e.g. electric light wiring 621.328

General

Interaction of parallel lines, heat losses. For traction lines see 621.332; for interior wiring for electric light see 621.328, for telegraf see 621.382, for telefones see 681.386-7

Overhed or aerial lines

Systems

Poles: foundations, guys, etc.

Cross arms Pins

Towers

Underground lines

Systems

Conduits

Manholes

Cables and conductors Insulating materials

Uninsulated conductors Bare wire

Insulated Wire and cable

Cables

Insulating materials

Leakage Influence of chemic composition

Insulators

Protectiv devices

Line lightning arresters

For protection of central stations see 621.3178
Electric lighting  Illumination

Class here works limited to electric lighting, but more general than any of the subheads below. This number is for matter differentiating lighting from other branches of electric engineering, but not for subjects which lighting has in common with other branches. For generation and control of electricity (including central stations) see 621.31, for transmission and wiring see 621.319, for measuring see 621.37.

For theory of electric light see 537.83 Electric lighting.

- 321
  General

- 325
  Arc lighting

  Including systems and lamps

  1  General: efficiency, cost, etc.

  2  Constant-current or series systems

  3  Constant potential or parallel systems

  4-5  Arc lighting according to

  4  Type of arc

  If emphasis is on form of current, class under 621.3255. If there is conflict, prefer 621.3254.

  42  Open arc

  421  " direct current

  423  " alternating current

  43  Inclosed arc

  432  " direct current

  433  " alternating current

  5  Form of current

  If emphasis is on type of arc class in 621.3254.

  52  Direct current

  521  " open arc

  523  " inclosed arc

  53  Alternating current

  531  " open arc

  533  " inclosed arc

  6  Composit electrode arcs

  Flaming arcs. Carbid, Bremer magnetite, titanium oxide arcs

  7  Details  Accessories

  Arc light carbons

  8  Applications

  For welding see physics 537.85, and metallurgy 669.

  Therapeutic applications see 615.84 and 621.3915.

  Searchlights

- 326
  Incandescent lighting

  Including lamps and systems

  1  General: efficiency, cost, etc.

  2  Systems (Edison 3 wire system)

  3  Carbon filament lamps

  31  Metalized filaments

  32  Other carbon filaments

  4  Metal filament lamps

  41  Platinum filaments

  42  Tantalum "

  43  Tungsten "

  44  Osmium "

  45  Other metal filaments

  5  Glowers of other materials

  53  Nernst lamps

- 327
  Incandescent vapor lighting and lamps  Other electric lighting

  3  Vacuum or incandescent vapor lamps

  4  Mercury vapor lamps

  For mercury rectifiers see 621.3137.

  5  Carbon vapor lamps  Moore lamp

  7  Vacuum lamps for special radiations: Crookes tubes, etc.
Apparatus at servis end of line

Underwriters requirements
National electric code
House wiring
Panels
Fuzes
Insulators, etc.
Meters
See also 624.37 Electric measurements and testing
Switches

Other apparatus

Electric traction

See 625 for construction of route; 656 for business management, maintenance; 654 for communication and signals; 699 for car building; 725.3 for architecture of stations, terminals, carsheds, shops, round houses, etc. This number is concerned properly only with the apparatus and appliances for transmission and use of the current after it enters the line.

General

Systems

Systems according to servis

Trunk lines
Interurban
Local
Surface
Elevated
Subway

Systems according to current

Direct current
Alternating current

Single-phase
2 phase
3 phase
Others

Systems according to delivery of power

Trolley systems
Overhead trolley
Underground trolley
Third rail systems
Unprotected third rail
Protected

The line (including track)

General

Interaction of parallel lines, heat losses, etc. are better class in 624.319.21

Feeders and return systems

Overhead wire
Trolley lines
Catenary suspension
Trackless trolley

Third rail

Underground conductor or contact

Accessories

Other types of line

Track

General

Deteriorating influences
Electrolysis
Leakage

Rails
Bonding
Rolling stock

For nonelectric rolling stock see 656 for administration, 699 for construction.

2 Locomotives
3 Motor cars
4 Accessories and parts: Control systems
   Motor, controller, current collecting devices, etc. Multiple unit control
5 Locomotive and car wiring
6 Running gear and other nonelectric details

Chemic electricity Voltaic cells and generators

Primary and secondary

General

E.m.f, counter e.m.f, polarization, weight, capacity; efficiency, life, crumbling, deterioration and detrimental influences; residues

Parts and accessories of cells and accumulators

1 Containers: jars, troughs, vats, etc.
2 Electrodes and their accessories: positive and negative plates or elements
   Grids, supporting frames, insulating rods, etc.
3 Diaphragms and partitions
4 Electrolytes Depolarizers Packing
5 Circulators Condits and piping
6 Connections Terminals Binding posts
7 Regulating apparatus
8 Other apparatus

Primary cells

See also 537.5 Voltaic electricity; 541.37 Electrochemistry

General

1 Single fluid
3 Double " Heavy current cells
4 Open circuit or nondepolarized
5 Closed circuit or depolarized
6 Accessories and parts
7 Classification according to use or operating methods

Accumulators or storage batteries

Secondary cells and batteries

1 General
18 Care and handling of accumulators
7 Accessories and parts

Led accumulators

General

18 Care and handling
2 Naturally formed: Planté type
3 Artificially formed: Faure type
4 Combined Planté-Faure types
5 Other led accumulators
52 Complex oxid types
55 Led element accumulators
56 Copper led "
57 Zinc "
58 Cadmium "

Alkaline accumulators

Other types of accumulators

Thallium, gas, etc.

Other classifications of accumulators

According to use or operation

Other topics pertaining to chemic generation of electricity

Vacant for future use; perhaps for direct transformation of heat or fuel energy
Electric measurements, meters and testing

General
Tariffs may be classt here, tho' better put in 654

Standards Calibration of instruments

Meters General types
Recording meters. See also special meters, 621.384
Prepayment meters. See also special meters, e.g. 621.3745 Watt hour

Special meters and measurements

Resistance meters: inductance, capacity
Wheatstone bridges, ohmmeters, resistance boxes

Potential meters: voltage
Voltmeters, electrometers, standard cells

Intensity meters: current
Galvanometers, ammeters, coulometers, Ampère-hour meters

Quantity or work meters Watt-hour meters

Power meters Watt meters

Frequency meters Oscillografs

Other meters and measurements

Phase meters Power-factor meters Synchronizers

Other electric measuring instruments
For other than electric measurements; e.g. electric thermometers

Weak current engineering

Electric communication: telegrafs, telefony, wireless
Libraries have too much material classt in 654 to make it practicable to abolish that number for construction and instruments; but for electric engineers and new libraries who prefer it, the detaild technical classification is developd here.
For overbed or underground lines see 621.3192

General

Telegrafs Systems
When systems and instruments conflict, classify according to systems.
For business administration, see 654; for wireless see 621.384

Codes

Morse
Continental
Phillips (press code)

A B C, dial, needle telegraf, etc.

Early experimental forms
A B C
Dial
Needle
Pointer
Other

Hand operated code telegraf

Simplex
Open circuit
Closed circuit

Duplex
Differential duplex systems
Stearns duplex
Polar duplex
Bridge duplex systems
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<td>34</td>
<td>Quadruplex</td>
</tr>
<tr>
<td>35</td>
<td>Multiplex</td>
</tr>
<tr>
<td>36</td>
<td>Synchronous multiplex: Delany</td>
</tr>
<tr>
<td>37</td>
<td>Harmonic</td>
</tr>
<tr>
<td>38</td>
<td>Automatic code telegraphy</td>
</tr>
<tr>
<td>4</td>
<td>High speed systems</td>
</tr>
<tr>
<td>41</td>
<td>Electrochemical automatic: Bain, Morse</td>
</tr>
<tr>
<td>42</td>
<td>Ink recording or embossing</td>
</tr>
<tr>
<td>43</td>
<td>Wheatstone</td>
</tr>
<tr>
<td>44</td>
<td>Pollak-Virag</td>
</tr>
<tr>
<td>45</td>
<td>Telepost (Delany)</td>
</tr>
<tr>
<td>46</td>
<td>Printing telegraph</td>
</tr>
<tr>
<td>47</td>
<td>Tape printing: stock tickers</td>
</tr>
<tr>
<td>48</td>
<td>Other tape printing: Hughes</td>
</tr>
<tr>
<td>49</td>
<td>Page printing: Buckingham, Murray, Baudot</td>
</tr>
<tr>
<td>50</td>
<td>Multiple page printing: Rowland</td>
</tr>
<tr>
<td>51</td>
<td>Writing telegraph</td>
</tr>
<tr>
<td>52</td>
<td>Transmitting and recording characters while being written; Gray's telautograph</td>
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<tr>
<td>53</td>
<td>Facsimile telegraph</td>
</tr>
<tr>
<td>54</td>
<td>Submarine cable telegraphy</td>
</tr>
<tr>
<td>55</td>
<td>Other wire systems</td>
</tr>
<tr>
<td>56</td>
<td>Induction telegraphy; from moving trains, etc.</td>
</tr>
<tr>
<td>57</td>
<td>Combined telegraphy and telephony Fantom circuits</td>
</tr>
<tr>
<td>58</td>
<td>Telegraph instruments</td>
</tr>
<tr>
<td>59</td>
<td>Transmitting: keys, senders, etc.</td>
</tr>
<tr>
<td>60</td>
<td>Intermediate and accessory: relays, repeaters, switches</td>
</tr>
<tr>
<td>61</td>
<td>Relays</td>
</tr>
<tr>
<td>62</td>
<td>Differential relays</td>
</tr>
<tr>
<td>63</td>
<td>Polarized</td>
</tr>
<tr>
<td>64</td>
<td>Repeaters, for simplex; Milliken, Ghegan, Toye, etc.</td>
</tr>
<tr>
<td>65</td>
<td>&quot; &quot; duplex or quadruplex</td>
</tr>
<tr>
<td>66</td>
<td>&quot; Half ' repeaters</td>
</tr>
<tr>
<td>67</td>
<td>Switches and distributing apparatus</td>
</tr>
<tr>
<td>68</td>
<td>Protective apparatus</td>
</tr>
<tr>
<td>69</td>
<td>Miscellaneous telegraph accessories</td>
</tr>
<tr>
<td>70</td>
<td>Receiving instruments</td>
</tr>
<tr>
<td>71</td>
<td>Sounders, recorders, etc. Subdivided, if wished, like 621.3824-8</td>
</tr>
<tr>
<td>72</td>
<td>Wireless electric communication: telegraphy, telephony</td>
</tr>
<tr>
<td>73</td>
<td>General</td>
</tr>
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<td>74</td>
<td>Wireless telegraphy Systems</td>
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<td>75</td>
<td>Spark telegraphy; by free oscillations</td>
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<td>76</td>
<td>Continuous-train telegraphy; by forced oscillations</td>
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<td>77</td>
<td>Instruments</td>
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<td>78</td>
<td>Sending apparatus</td>
</tr>
<tr>
<td>79</td>
<td>Antennae, aerials, and their substitutes</td>
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<tr>
<td>80</td>
<td>Receiving instruments and apparatus</td>
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<td>81</td>
<td>Applications, adaptations, specific installations</td>
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<td>82</td>
<td>Wireless telephony systems</td>
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<td>83</td>
<td>Apparatus</td>
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<td>84</td>
<td>Sending apparatus</td>
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<td>85</td>
<td>Aerials etc.</td>
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<td>86</td>
<td>Receiving apparatus</td>
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<td>87</td>
<td>Applications, adaptations, specific installations</td>
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<tr>
<td>88</td>
<td>Vacant for possible development of visual transmission by wireless</td>
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<tr>
<td>621.385</td>
<td>Telefony Systems</td>
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</tr>
<tr>
<td></td>
<td>See also 621.3845 Wireless telefony</td>
</tr>
<tr>
<td>1</td>
<td>General</td>
</tr>
<tr>
<td>2</td>
<td>Party line</td>
</tr>
<tr>
<td>22</td>
<td>When 2 and 3 or 2 and 4 conflict, 3 or 4 prevails</td>
</tr>
<tr>
<td>23</td>
<td>Series</td>
</tr>
<tr>
<td>24</td>
<td>Bridging</td>
</tr>
<tr>
<td>3</td>
<td>Selectiv</td>
</tr>
<tr>
<td>32</td>
<td>Intercommunicating systems</td>
</tr>
<tr>
<td>34</td>
<td>Without central switchboard</td>
</tr>
<tr>
<td>36</td>
<td>Common return systems; selectiv at each station</td>
</tr>
<tr>
<td>4</td>
<td>Radial common return systems; selectiv at one station only</td>
</tr>
<tr>
<td>46</td>
<td>2-wire systems; separate returns</td>
</tr>
<tr>
<td>5</td>
<td>Central switchboard systems</td>
</tr>
<tr>
<td>7</td>
<td>Manual; for automatic see 621.3857</td>
</tr>
<tr>
<td>42</td>
<td>Local battery or magneto systems</td>
</tr>
<tr>
<td>46</td>
<td>Common battery or central energy systems</td>
</tr>
<tr>
<td>5</td>
<td>Multiple switchboard systems</td>
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<td>6</td>
<td>Trunking Transfer systems</td>
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<td>61</td>
<td>Trunking</td>
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<td>63</td>
<td>Transfer system</td>
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<td>Semi-automatic and automatic systems</td>
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<td>72</td>
<td>Semi-automatic</td>
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<td>75</td>
<td>Automatic</td>
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<td>Strouger system (Automatic Electric Co)</td>
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<td>8</td>
<td>Private exchanges</td>
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<td>386</td>
<td>Telefone instruments</td>
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<td>2</td>
<td>Terminal; subscriber’s instruments</td>
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<td>2</td>
<td>Transmitters</td>
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<td>3</td>
<td>Receivers</td>
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<td>4</td>
<td>Induction coils</td>
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<td>5</td>
<td>Condensers</td>
</tr>
<tr>
<td>6</td>
<td>Hook or other switches</td>
</tr>
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<td>7</td>
<td>Call receiving apparatus</td>
</tr>
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<td>8</td>
<td>Call sending</td>
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<td>9</td>
<td>Miscellaneous accessories</td>
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<td>92</td>
<td>Coin collecting devices</td>
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<td>94</td>
<td>Protective devices</td>
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<td>96</td>
<td>Current supply (local batteries)</td>
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<td>.387</td>
<td>Central switchboards and other station equipment</td>
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<td>1</td>
<td>General</td>
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<td>2</td>
<td>Switchboards, manual</td>
</tr>
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<td>22</td>
<td>Local battery or magneto</td>
</tr>
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<td>26</td>
<td>Common battery</td>
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<tr>
<td>3</td>
<td>Multiple switchboards</td>
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<td>35</td>
<td>Divided multiple</td>
</tr>
<tr>
<td>4</td>
<td>Trunks Transfer boards</td>
</tr>
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<td>41</td>
<td>Trunks and trunking</td>
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<tr>
<td>43</td>
<td>A boards</td>
</tr>
<tr>
<td>45</td>
<td>B boards</td>
</tr>
<tr>
<td>47</td>
<td>Multiple plug transfer</td>
</tr>
<tr>
<td>5</td>
<td>Switchboard parts and accessories</td>
</tr>
</tbody>
</table>
621.387 6 Power plant equipment and accessories
   62 Accumulators
   63 Charging generators
   64 Ringing

7 Automatic and semiautomatic switchboards
   Including accessories. Subdivided like 621.3857

8 Téléphone transmission
   For transmission common to other branches of electricity see 621.319
   Put here only that peculiar to téléphony

81
82 Long distance
83 Transposition
84 Téléphone cable construction
85 Loading
86 Pupin coils

9 Other central station accessories
92 Distributing frames and racks; main
93 " " " " intermediate or secondary
94 Protectiv devices
   See also 621.3178 and 621.31982
96 Meters and counters
   See also ’621.3286 Electric light meters

.388
.389 Other electric communication
.39 Other application of electricity
   Subdivide like 600; e.g. electricity applied to mining 621.3922, applied to
   medicin 621.3915. This place is provided for specialists who prefer to
   mass all their material under 621.3. Libraries should class rather by pur-
   pose of the application; e.g. books on electric heating will be more useful in
   a general library under 697.7 with the question of heating than in 621.3997
   with a general assortment of unrelated applications. References here show
   a library’s resources on special applications

.4 Air and gas engins and other motors
.41 Hot air engins
.42 Compress or rarefied air or gas engins
.43 Internal combustion engins
.431 General theory of internal combustion engins
.432 Cycles and systems of operation
   1 Four cycle systems Otto cycle
   2 Two cycle systems
   3 Other and modified systems
.433 Gas turbins
.434 Internal combustion engins clast by fuels
   1 Engins for gaseous fuels
      11 Engins for natural gas
      12 " illuminating gas
      13 " blast furnace gas
      14 " producer gas
      For gas producers see 665.8
   15 Engins for acetylene gas
   2 Engins for liquid fuels
   21 Engins for gasolene
   22 " kerosene
   23 " other petroleum oils
   24 " alcohol
   3 Engins for solid fuels
Those not limited to a single system or fuel; e.g. description or discussion of Diesel motor. Arrange alphabetically by name of machine.

Special applications

Engins for farm machinery, fire engins, roadrollers, etc. See also special machines

Class here only adaptation and application of internal combustion engins to motor vehicles. See also 629 for motor vehicles

Motors for small boats

" large vessels

Airship motors

For airships see 629

Binary vapor engins

Windmills

Animal motors Tredmills

Solar engins

Power plants and central stations

Air compression or rarefaction Pneumatic machinery

Refrigeration Ice machines

Air compressors

Dry air compressors

Wet " "

Compress air transmission and distribution

Details of transmission Piping, mains, gages, etc. Designs of transmission

Applications for compress air

For pneumatic hoists, etc. see 621.86

Compress air motors

Pneumatic tools: drills, hammers, etc.

See also 821.0 Machine tools

Special applications in railway servis

Compress air locomotives

Pumping by compress air

Other applications

Pneumatic cleaning, sandblasts, tubes

Rarefied air and vacuum appliances

Vacuum cleaners: general discussion and description. See also domestic economy 648.52 Methods of sweeping and dusting

Refrigeration

For cold storage see 664.8

Refrigerating fluids

Refrigerating systems and plants

Brine system

Direct expansion system

Design Calculation of piping, refrigerating surface, etc.
| 621.57  | Refrigerating machines |
| 572    | Ammonia compression machines |
| 573    | Ammonia absorption " |
| 574    | Carbonic acid machines |
| 575    | Air machines, vacuum machines, etc. |
| 579    | Other |
| 58     | Icemaking |
| 581    | Can system |
| 582    | Plate system |
| .6     | **Blowing and pumping engines** |
| .61    | Piston blowers Blast furnace blowing engines, etc. |
| .62    | Rotary blowers |
| .63    | Centrifugal blowers Including fans: exhaust and plenum |
| .64    | Power pumps and pumping engines Regardless of motive power |
| .641   | General theory Design and construction |
| .642   | Tests of pumps and pumping engines |
| .65    | Direct acting pumps |
| .652   | Piston pumps |
| .654   | Plunger " |
| .66    | Rotary pumps |
| .67    | Centrifugal pumps |
| .68    | Fire engines |
| .69    | Other blowing and pumping devices Steam jets, ejectors, etc. |
Mills Factories Engineering works

Engineering questions affecting establishment and conduct of manufacturing plants. Arrangement of shops and departments (including storehouses, offices, etc.) with reference to sequence of processes, economy of power and handling; also equipment and internal arrangement of each shop. See also

651 Offices methods and equipment
657 Accounting, costkeeping, estimates
658 Business methods
659 Advertising, etc.
670 Manufactures: articles, and methods and machines for making them
725.4 Architecture of factories

In 621.7 is considered the disposition of the material for which the architect constructs the shell, the assembling into a unit of elements essential to a great factory. A works manager may wish to keep all his notes on his own plant here, including machines and processes for his special product, but a general library should class manufactured articles, with the special means and methods of producing them, under the number for the article; e.g. a library would class material on spindles and looms in 677, but the manager of a woolen mill might prefer to class them in 621.7983 as an integral part of his plant, the classification under the regular number will usually prove more satisfactory in all cases.

.701 Location

With reference to supply of raw material, market for finished product, shipping facilities, relative cost of freight on material or product; e.g. the much greater cost of carrying a bulky car than an equal weight of compact raw material as a factor in locating an automobile factory.

.704 Organization and administration

Managers and engineers, professional staff; artisans and laborers regarded as machine accessories; hours and shifts considered solely with reference to effect on output. For wages and other economic aspects see 331 Capital, labor and wages; for factory legislation (protection and welfare of employees) see 338.9. For organization of clerical force see 651.

.705 Mechanics and laborers

.71 Drafting room
.711 General
.712 Arrangement
.713 Equipment
.714 Materials and supplies
.715 Methods and processes
.719 Other

.72 Woodworking shop Pattern shop

May be subdivided like 621.7

.73 Forge shop

May be subdivided like 621.7

.74 Foundry

May be subdivided like 621.7

.75 Machine shop

May be subdivided like 621.7

.76 Blast furnace

May be subdivided like 621.7

.77 Rolling and drawing mills

May be subdivided like 621.7
621.79 Other shops and departments

.792 Boiler and sheet metal shops
   Stamping and punching May be subdivided like 621.71

.794 Special process shops
   Galvanizing, plating, etc. May be subdivided like 621.71

.795 Finishing shop
   Painting, glazing, grinding, buffing, testing. May be subdivided like 621.71

.796 Storehouses
   2 Materials and supplies
   4 Explosives
   6 Products Shipping department

.798 Department turning out main product
   Processes and machines Varying for different kinds of factories and
   provided only for factory use, see note to 621.7. Libraries should leave
   vacant May be subdivided like 621.71

.799 Other minor shops and departments

.8 Principles of mechanism Millwork and mechanism of
   transmission Hoisting and conveying machinery

.81 General Principles of mechanism Machine design

.82 Journals, shafting, etc.

.821 Journals

.822 Bearings: ball, roller, etc. Hangers Bearing metals

.823 Shafting
   Flexible shafting

.825 Couplings and clutches Universal joints
   Friction clutches

.826 Shaft brakes

.83 Tootht gears and cams

.831 General: theory, forms of teeth, tooth curvs

.832 Efficiency of gears Tests Friction of gears

.833 Design of gears
   1 Spur gears
   2 Bevel and skew bevel gears
   3 Worm and spiral gears
   Screws for transmitting motion, endless screws

.834 Construction: gear cutting and casting

.835 Chain gearing

.837 Ratchet gearing: pawls, dogs

.838 Cams

.84 Valv motions and gears
   General, trade catalogs; for special valvs see subject

.846 Valvs and cocks

.85 Machinery and mill gearing
   Transmission by flexible connections

.852 Belt connection

.853 Hemp rope transmission

.854 Wire rope

.856 Pulleys Sheaves

.858 Friction gearing
Hoisting and conveying machinery
For dredges see hydraulic engineering. 627.7 Dredging, dredging machinery. See also 621.26 Hydraulic machinery: 621.183 Fuel and ash conveyers

Hoists: blocks and tackle
Mechanical tackle Chain blocks
Winches Capstans Windlasses
Power shovels
Conveyers Telferage
Belt or bucket conveyers
Belt: moving sidewalks
Bucket: escalators, moving stairs
Other conveyers: cash carriers, etc.
Telfers
Selfpropelling
Other: jacks, etc.
Cranes and elevators

Derricks
Revolving cranes.
621.873-5 may be subdivided like 621.8771-5 by kind of power, if wished; e.g. 3 Steam 4 Hydraulic 5 Electric
Traveling cranes
Locomotive cranes
Elevators
Handpower
Belt driven
Steam, gasoline
Hydraulic
Electric
For special purposes
Passenger elevators
Freight “
For mines see 622.17-68
Dum waiters Book lifts
Lifts for small objects
Apparatus
Car and guides
Power transmitting devices
Counterbalancing weights and guides
Control devices
Safety “
Accessories
621.88 Fastenings
  .882 Screws and bolts  Systems of screw threads
    For screws for transmitting motion see 621.833
  .883 Keys and cotters
  .884 Rivets  Design of riveted joints
  .89 Friction  Lubrication  Lubricants

.9 Machine tools
  Manipulation  Discussion and catalogs of different kinds and makes of
  metalworking tools. For manufacture of various tools, see 672. For wood-
  working tools, see 674 Wood manufactures; also 684 Cabinet making, 694
  Carpenter
  .91 Planing and milling machines
  .912 Metal planers, shapers, and slotters
  .92 Grinding and filing  Abrasives
    Cylinder and surface grinding machines
      Lapping machines
  .923 Emery wheels
  .924 Filing machines
  .93 Cutting and sawing
    .931
  .932 Metal sawing and cutting machinery
  .94 Turning
    .941
  .942 Metal turning lathes
  .943
  .944 Pipethreading machines
  .945 Boring mills
  .95 Perforating machinery
    .951
  .952 Drilling machinery  Drills
  .953 Reamers
  .954 Tapping machines
  .96 Punching and shearing machinery
  .97 Hammers  Riveting tools
  .98 Bending, straightening, and shaping
    .981
  .982 Bending machinery
  .983 Straightening machinery
  .984 Flanging and die press machinery
  .99
622 Mining engineering.  See also 338.2 Mining products; 332.41 Coinage metals
May be subdivided like 620 and 620.0; e.g. Societies, 622.06; Reports, 622.009

1 Exploration and Prospecting.
   1.1 Theory. Applied Geology, etc.
   1.2 Prospecting. Practical Methods.
       Including Divining Rods.
   1.3 Mineral Surveys.
   1.4 Mine Surveying.
   1.5 Magnetic Surveys.
   1.6 Theory of Faults. See 551.87 and 553.19

2 Practical Mining.
   2.1 Excavation.
   2.2 Quarrying.
   2.3 Drilling and Blasting.
   2.4 Deep Boring.
   2.5 Shaft Sinking.
   2.6 Tunneling and Drifting.
   2.7 Stoping.
   2.8 Timbering. Masonry lining. See also 622.36.

   3.1 Open Workings.
   3.2 Hydraulic Mining and Sluicing.
   3.3 Coal Mining. See 553.2.
   3.4 Metal Mining. See 553.3 and .4.
   3.5 Working Thick Deposits.
   3.6 Salt Mining. See 553.65.
622.4 Ventilation and lighting of mines

- .41 Theory Gases met with, etc.
- .42 Natural ventilation
- .43 Furnaces Steam jets, etc.
- .44 Fans See 621.62
- .45 Airways Stoppings Regulators
- .46 Measurement of ventilation.
- .47 Lighting Safetys lamps, etc.

Drainage

- .5 Theory of infiltration of water
- .51 Natural drainage
- .52 Cornish pumps See 621.64
- .54 Steam pumps See 621.64
- .55 Hoisting of water
- .56 Dams and watertight linings See also 622.28, Timbering
- .57 Acid waters

Extraction Hoisting and transportation

- .6 Handling mineral in working place
- .61 Underground roads
- .63 Mine cars Trams, etc.
- .64 Gravity roads and planes
- .65 Tramming and animal haulage See 625.7
- .66 Mechanical haulage
- .67 Hoisting engines Drums Ropes Whims
- .68 Cages Skips Buckets
- .69 Surface transportation
  Including mineral roads, wire ropeways, transhipment, loading and unloading, etc.

Mechanical preparation Ore dressing

- .7 Theory Preliminary operations
- .71 Hand dressing
- .73 Crushing Stamping engine
- .74 Screening
- .75 Jigging Oreconcentrators
- .76 Slime treatment
- .77 Magnetic separation
- .78 Coal washing
- .79 Dressing works

Dangers and accidents See also 613.6 Hygiene; 331.82 Laboring classes

- .8 Explosions of fire-damp
- .81 Mine fires
- .83 Crushing and fall of ground
- .84 Flooding of mines
- .85 Accidents to miners
- .86 Rescue and relief
- .87
- .88
- .89
623 Military and naval engineering
For military and naval science, maneuvers, strategy and tactics see 355-359

SUMMARY

623.1 Fortifications: field and permanent
.2 Siege operations: mines, etc.
.3 Defensiv operations
.4 Ordnance and projectiles
.5 Gunnery
.6 Military roads and bridges
.7 Military signals: telegraf, ballooning, etc.
.8 Naval architecture
.9 Armor Torpedoes, etc.

.1 Fortifications: field and permanent

Principles of fortification
Profiles
Plans
Defilading
Details: bastions, curtains, glacis, etc.
Accessory defenses

Flanking defenses; outworks, palisades; moats, obstacles, etc.

Construction of permanent fortifications
Earthwork
Masonry: concrete
Armor
Systems of forts
Central fort
Citadel
Fortified positions
Barrier forts
Temporary fortifications Field works
Special forts

Divided like 930-999; e.g. history of the fortress of Gibraltar 623.19468

.2 Siege operations Mines

Class here only engineering operations. For conduct of sieges, see 355.44

Siege works
Investment, establishing camps
Circumvallation and countervallation
Establishing parallels and advancing batteries
Zigzags Saps

Breaching batteries Breaches

For assaults see 355.44

Land mines and torpedoes

See also 623.9 Submarine torpedoes

Other means of demolition
Firing and exploding devices
623.3  Defensiv operations
   For maneuvers see 355.44
   .34  Defense of trenches
   "  breaches
   .36  Countermines
   .4  Firearms ordnance and projectils  Arsenals
      Including ammunition in general and fireworks.  For manufacture of explosives see 662.  For general history of war customs and weapons, and of ancient engines of war see 399.  Class here weapons for gunpowder and similar explosives
   .41  Artillery material
      Clast according to use
   .412  Field artillery material
   .413  Mountain " "
   .414  Landing " "
   .415  Siege " "
   .416  Fortress " "
      Including large guns (fortress, coast and naval) considered together
   .417  Coast artillery material
   .418  Naval " "
   .42  Guns
   .421  Guns according to form and construction
      See also 623.5 Gunnery; 623.47 Gunmaking
      1  Early forms: bombard, culverin, etc.
         For blunderbuss and other early forms of small arms see 623.441
      2  Guns proper or long cannon
      3  Short cannon or howitzers (shell guns)
      4  Mortars
      5  Guns made in a single piece
      6  Blit up guns
         Hoopt guns
      62  Jacketed guns
      63  Hoopt and jacketed guns
      64  Wirewound guns
   .422  Guns according to mode of loading and operating
      1  Muzzleloading guns
      2  Breechloading "
      3  Rapidfire guns'
      4  Machine "
         Multiple tube guns
            Gatling guns, Hotchkiss revolving cannon
      43  Single tube guns
      5  Automatic and semiautomatic guns
         Hotchkiss, Maxim, Colt
   .423  Form and interior arrangement of guns
      1  General plan
      2  Outside form
      3  Hooping
      4  Jacketing
      5  Bore
      6  Riffing
      7  Chamber
Breech and firing mechanisms

1 Breech closing apparatus
   11 Block
   12 Wedge
   13 Screw
2 Firing apparatus Vent Vent bushing Firing pin
3 Safety apparatus: gas checks, etc.

Sighting attachments
For detach apparatus, see 623.462
1 Backsight, sliding notch, eyehole, etc.
2 Sight Foresight

Mounts and carriages
Including their parts and accessories

Field and mountain mounts and carriages
1 Field mounts
2 Mountain mounts
3 Machine gun mounts
4 Caissons and limbers
5 Ammunition chests
6 Battery carriages (i.e. tenders)

Siege mounts and carriages
1 Siege gun mounts
2 Howitzer mounts
3 Mortar mounts
4 Siege carriages (i.e. tenders)

Fortress, coast and naval mounts
For accessories see 623.415
1 Casemate mounts
   Pedestal and pivot mounts
2 Barbet mounts
3 Disappearing mounts
4 Turret mounts

Naval mounts
For discussion limited to naval use

Mechanism of mounts
Platforms, circular pintle block and pivots
1 Checks and transoms
2 Chassis and crosshed slides
3 Mechanism for maneuvering and going into battery: wheels trucks, rollers
4 Sighting apparatus
5 Recoilchecking mechanism Breeching Vent plug
6 Recoil mechanism Brakes
61 Automatic friction recoil checks
62 Screw brakes
63 Hydraulic brakes
64 Pneumatic "
65 Trail spades
7 Reactionary mechanism
   Devices for restoring guns to firing position after recoil
71 Spring recuperators
72 Pneumatic recuperators
623.436 Maneuvering appliances
1 Levers, handspikes, roller handspikes
2 Breeching tackle
3 Shot barrows, shell barrows
4 Projectil hoists
See also 621.86 Holisting and conveying machinery

.44 Small arms
Mechanism and military efficiency
For small arms practis see 355.5
" manufacture of small arms see 683
" weapons prior to firearms see 399

.441 Primitiv forms of firearms
Blunderbus, harquebus, etc.

.442 Rifles, muskets, carbines, musketoons
Including also bayonet as part of the complete wepon
1 Single shot, muzzleloading
2 " " breechloading
3 Repeating rifles
31 With magazine
32 " loader
4 Automatic guns

443 Pistols and revolvers
1 Single shot pistols
3 Automatic pistols
4 Revolvers

444 Side arms Cutting arms
For halberds, axes, dirks, poniards, and other antiquated forms see 399
2 Swords
3 Bayonets: saber, bayonets, sword bayonets
4 Lances

.45 Ammunition and fireworks
Kinds and relativ efficiency for military purposes. For details of manu-
facture of powder and explosives see 662

.451 Artillery projectils
Including exploder as part of projectil
1 Spheric projectils
11 Solid shot
12 Bombs
13 Shells: early shrapnel
14 Grenades
2 Elongated projectils
22 Case shot: canister and grape
25 Elongated bullets
3 Shells
4 Modern shrapnel
5 Segment and ring shell
6 Incendiary shells
For illuminating shells see 623.45446
7 Shells with high explosiv
8 Torpedo shells
8 Armorpiercing shells and other projectils
623.452 Powders Explosivs

   See also 662.2 Powder manufacture

   1 Gunpowder
   2 Other powders
   9 Other explosivs

.453 Fixt ammunition

.454 Exploding devices and fireworks

   See also 662 Pyrotechnics, explosivs, matches, etc.

   1 Matches and fuzes
   11 Slow matches and fuzes
   12 Quick matches and fuzes

   2 Exploders
      21 Percussion caps
      22 Primers
      23 Projectil fuzes
      24 " detonators
      29 Other exploders, etc.

   3 Fireworks, bombs, etc.
      For torpedoes see 623.9
      31 Incendiary devices
      32 War rockets

      33 Petards
      35 Camouflets

   4 Illuminating fireworks
      41 Links
      42 Torches

      43 Signal rockets

      46 Illuminating projectils Star shells

.455 Small arms ammunition

   For powder see 623.452

   1 Spheric bullets
   2 Elongated bullets Minie ball
   3 Cartridges Fixt ammunition
      32 Jacketed bullets
      35 Prohibited bullets: Dumdum or expanding; explosiv
         Those prohibited by Hague conference

.46 Artillery accessories

.461 Battery tools

.462 Instruments

   1 Sighting apparat us; rear sight, quadrants, elevating arcs,
      range scales
      5 Range finders

.463 Implements: rammers, swabs, levers

.47 Arsenals

   Subdivide like 621.7
Preservation and care of munitions

Reception, tests, accidents

Preservation
1 Magazines
2 Guns
3 Carriages
4 Small arms

Reception Tests Buying
1 Inspection
2 Acceptance tests
3 Function of commissions Experimentation

Accidents Explosions; preventive measures
1 Accidents to persons
2 " material
21 Accidents to arms
22 " in transit
Damage to boats, cars, etc.
23 Accidents to structures

Gunnery

Theoretic and experimental; efficiency of artillery system as a whole

Theory and strength of guns

Interior ballistics
Effects of powders; experiments

Exterior ballistics

Sighting and firing

Field and mountain guns
Siege guns
Fortress, coast and naval gun
Naval target practis

Effect of projectiles

On living targets: impact, gases
" inanimate targets
1 Earthworks
2 Masonry Concrete
3 Armor

Reaction of mounts

Rigid rolling mounts
" sliding "

Theory of braking

Mechanically controlled recoil

Nonrecoil mounts

Traction of carriages
Military roads, bridges and buildings

From the special point of view of military servis For construction in general see 690.1 and 721; for bridges, roads and railways see 624 and 625; for seacoast walls, 627 Hydraulic engineering

Military buildings

Duplicating 725.18 for military engineers. Libraries should use 725.18 and leave 623.61-.64 vacant; for construction of fortifications see 623.1

Barracks

Military establishments

Groups of buildings forming a unit; e.g. military schools, army posts

Magazines

Military roads and thorofares

See also 625.7 Construction of roads

Military railways

See also 625 Railway construction

Destruction of tracks

Military bridges

For permanent bridges see 624

Pontoon bridges

Trestle bridges

Other temporary bridges

Bridge material

Military signals Aeronautics, etc.

Special military applications of science

Military topografy

Special processes and instruments. See also 526 Topografy in general

Photografy

Reproductiv processes applied to military art. See also 770 Photografy

Signaling Military telegrafy

Visual signals: heliografs, searchlights, etc.

Military telegrafy

Both wire and wireless. See also 621.382 and 654 Telegram

Military telefony

Both wire and wireless. See also 621.385 and 654.6 Telefony

Military aeronautics

For principles see 533.6 Aeronautics; for construction of airships see 629.13

Class here only military utility

Machines lighter than air

Free balloons

Dirigible balloons

Captiv balloons

Machines hevier than air: aeroplanes

Other

Military sanitation

Camp sites: soil, water, drainage, etc. For personal hygiene see 613.67
Naval architecture  Shipbildung

Including warship accessories. Class here comprehensiv works on shipbuilding.
Subdivide with 001-009 and 02-09 like 620. For ship design and theory see 623.81 Design; for principles of flotation see 532.3 Floating bodies

General  Design

Class here also separate discussion of such general questions as flotation, displacement, stability, strength, resistance, propulsion and design; i. e. speed and power, coal endurance and steaming radius, passenger or cargo capacity, etc.

Types of ships and boats

Primitiv and early forms

Rafts, catamarans, dugouts; galleys

Modern sailing vessels

Caravels, sailing yachts, etc.

See also 799 Yachting; 623.824 Power yachts

Engin driven vessels

Steam, internal combustion, electric, etc.

Tugs and lighters

Ferry boats: passenger, freight and train

Passenger and cargo vessels

River, lake or ocean liners; power yachts, etc. For tugs, ferryboats, small motor boats, etc. see 623.823

Warships

Fighting vessels: battleships, cruisers, gunboats, monitors, torpedo boats, submarines. For sailing men-of-war see 623.822

Other government vessels

Transports, hospital ships, store and fuel ships (supply, food, refrigeration, ammunition ships; colliers, oilers, mineplanters, etc.) repair ships, lightships and lighthouse tenders, police boats, revenue cutters, fish commission boats, fireboats, etc.

Other power vessels

Ships for cable laying, icebreakers, trawlers, etc. For dredges see 627.7

Other boats

Flatboats, scows, lighters, canal boats, barges, rowboats and canoes, life-; boats, surf boats

Appliances peculiar to shipbuilding

Model tanks and experiments, including also Froude's tests on full size ships launching ways and launching; dry or graving docks; moldlofts and scriveboard

Hull and its accessories

Structural: watertight compartments; systems of construction (wood, com posit, iron and steel), structural details (framing, bulkheads, etc.)
Nonstructural: joinery, nonstructural decks

Hull accessories: masts and spars; rudder and steering gear; drainage, etc.

Lighting, ventilating, heating, refrigerating; electric plant and lighting for ship installation only; see also 621.3 Electric engineering

Ship fittings: doors, hatches, etc.

Equipment and outfit

Superadded, not built in, but necessary for effectiv use of ship

Sails and rigging; anchors, chains, cables, hawssers; compasses, sounding machines, speed logs; boats, rafts, life preservers, buoys;

Furniture, saloon and cabin furnishments; table and galley (kitchen) outfit.

See also domestic economy, 645

Propelling machinery

Vibration and balancing. For theory of propulsion see 623.81

See also 621.12 Marine engines; 621.165 Steam turbines; 621.18 Boilers

Armor and armament

Distribution, armoring; proper hight, etc; battery

For manufacture of armor plate see metallurgy, 669.1 Iron and steel

Torpedoes

Launching tubes and other accessories
Bridges and roofs Viaducts

Subdivide if wished like 620.1-9 and 620.0

General

Purpose
Highway, foot bridges, etc. regardless of structural type

Location Approaches

Foundations
General works Foundations of buildings are better classified 721.1
Foundation bed Nature of soil
Excavation, timbering, shoring
Material for building foundations
For material for superstructure see 624.01

Pile foundations

Platform foundations
Subaqueous foundations
Processes: cofferdam, caisson, freezing

Piers and abutments
Wood, masonry, metal. Subdivided like 620.1

Stresses and strains
General; if limited to a special type, class with that type
Computation of stresses

Loads
Dead, live or moving loads

Highway
Railway
Wind pressure
Working stresses

Girders and girder bridges Floor systems

Girders
Continuous; discontinuous or independent
Solid beams
Wood
Metal
Plate girders Lattis girders
Trestles
Floor systems

Girder bridges

Trusses and trussed bridges
 Constructed of systems of braced girders

Simple truss
Continuous truss
Cantilever truss Balance bridge

Tubular bridges Box-girder bridge
624.5 Suspension bridges
.52 Flexible Rope bridge
.53 Rigid
.55 Cables
.56 Towers or piers
.57 Anchorage
.6 Archt bridges
.62 Wood
.63 Masonry
  Stone, brick, concrete, reinforced concrete
.67 Metal: iron and steel
.68 Hinged arch
.7 Compound structures
  Structurally compound; e.g., plate girder and suspension, trussed arch
.8 Movable bridges Drawbridges
.82 Bascule: counterpoise, folding
.83 Swing: pivot, swivel, turning
.84 Lifting
  Whole bridge lifted vertically
.85 Rolling
  Floating; see also 624.87
.86 Aerial and other traveling bridges
.87 Pontoon bridges: floating, boat or raft
.88
.89

625 Railroad and road engineering
  May be divided by o and oo like 620. For railway operation see 656
.1 Way and works
.11 Route
  Reconnaissance, preliminary and locating surveys; center line; grades; curv.; switchbacks
.12 Permanent way Roadbed
  Earthwork: surveys, computation, classification, cuts and fills. Drainage
.13 Structures: tunnels, culverts, snowsheds
  Class here general works on tunnels; see also mining 622.26
  For bridges and trestles see 624; for transportation buildings see 725.3
.14 Track: ballast, ties and tieplates, strains
  Including also rails and their accessories
.146 Monorail tracks
.15 Rails and accessories
  Rail braces, rail joints, chairs, track bolts, nut locks, spikes
.16 Track accessories
  Turnouts, switches, sidings, bumping posts; crossings: signals; turntables; ashpits, track tanks; cattle guards
.17 Road maintenance and repair Materials
.18 Road equipment
  Fences, gates, platforms, track scales, yards, etc. Stations, depots, shops, etc. considered as road accessories
  For stations, depots, roundhouses, etc. see 725.3
  For shops see 621.7
.19 Other topics
625.2 Trains and accessories
   Interrelations of road and rolling stock; strain and wear
   For car building see 699
   For time tables, traffic, etc. see 650
.21 Running gear
   Trucks, bogies and Bissell bogies; wheels, axles, tires, balancing: axle boxes
   and gards; lubrication
   Suspension, bearing springs
.22 Cars
   Transverse section of car and track gage
   Effect of length of car in rounding curvs
.23 Passenger cars
.24 Freight and combination cars
.25 Brakes Buffers and couplings
.26 Power requirements
   Length and weight of trains. Speed
   See also 621.13 Steam engines; 621.3342 Electric engines; 621.43 Gas engines
.27
.28 Monorail rolling stock
.3 Inclined and mountain railways
.32 Funicular railways
.33 Rack railways
.4 Elevated and underground roads, subways
.5 Cable roads
.6 Street railways, tramways
   See also 621.33 Electric traction; 625.4 Elevated and underground railways
   625.5 Cable roads; 699 Carbuilding
.7 Roads, highways, streets
   See also local government 352.7 Streets, highways; for pavements see 625.8
   71 Road systems
   711 Rural
   712 Urban
   72 Location
      Preliminary and locating surveys Grades Curves
   73 Roadbed, foundation
      Earthwork Subsurface drainage
   74 Dirt roads Crowning Drainage
   75 Surfacing Oil and other binders
   76 Maintenance and repair
   77 Trees Parkings
   78 Subsurface conduits, pipes, etc.
      Sewers; water, steam and gas pipes as affecting roads
   79 Other topics
625.8  Pavement

.81  Flagstone

.82  Stone blocks and brick
    Including cobblestone. Requirements of paving stones
    For vitrified brick see 625.87

.83  Wood pavements
    Corduroy, plank, blocks

.84  Concrete pavements

.85  Asphalt

.86  Stone roads
    Macadam, telford and other broken stone processes

.87  Metal, vitrified brick, reinforced blocks
    For other brick pavements see 625.82

.88  Sidewalks
    May be divided like 625.81-.87

.888  Curbs

.89  Other topics

.9  Ship railways

626  Canal engineering

.1  Route

.2  Water supply

.3  Size and shape

.4  Locks

.5  Lifts and inclined planes

.6  Canal boats: size, shape, etc
    See 623.829 Shipbuilding

.7  Towing; power, etc.

.8  Irrigation canals and other irrigation works

.9  Ship canals

627  River, harbor, and general hydraulic engineering

.1  Rivers: force of water, discharge, bars

.2  Harbors  Breakwaters

.3  Docks  Piers  Quays  Shipping facilities

.4  Dikes and levees, embankments

.5  Other protection and reclamation of land from tides and
    waves, drainage
    For agricultural drainage see 631

.6  Jetties

.7  Dredging  Dredging machinery

.8  Dams

.9  Lighthouses  Buoys

628  Sanitary engineering  Waterworks

.01 Theories, utility  .02 Compendas  .03 Dictionaries  .04 Essays  .05 Periodicals
    .06 Societies  .07 Study and teaching  .08 Polygraphy  .09 History and
    description of sanitation and general sanitary works, divided geographically like 930-999

.1  Water supply of towns
    For isolated supply see 628.7

.11  Sources of water supply
    Lakes, rivers, springs, wells, and pumping

.12  Pumping vs gravitation on systems
    Pump well, standpipe, high servis, Holly system
628.13 Storage and servis reservoirs
   .14 Condits, aqueducts, tunnels
      See 625
   .15 Mains and servis pipes
      Freezing, iron, led
   .16 Impurities and their removal: filter basins, etc.
   .17 Public (sprinkling, fire, flushing), manufacturing, and
       domestic use and waste; meters

**Sewerage works**

   .21 Sewerage systems
   .211 Combined system
   .212 Separate system
   .213 Liernur system
   .214 Shone system
   .215 Berlier system
   .216 Other systems
   .217 Outfall
   .218 Depth and allinement
   .219 Grade and velocity

   .22 Shape and size of sewers
   .221 Stormwater flow
   .222 Ordinary flow
   .223 Circular section
   .224 Ordinary eg shape
   .225 Other eg shapes
   .226 Other forms
   .227
   .228 Formulas for size
   .23 Ventilation of sewers
   .231 Openings in streets
   .232 Lamp posts
   .233 Flues in houses
   .234 Pipes on houses
   .235 House drains
   .236 Chimneys and furnaces
   .237 Charcoal and chemicals to deodorize sewer gas
   .238 Special mechanism
   .239 Special construction
   .24 Design and construction of sewers
   .25 Sewer appurtenances
   .251 Junctions
   .252 House connections
   .253 Manholes and lampholes
   .254 Flushing shafts and fixtures
   .255 Catch basins and inlets
   .256 Traps and ventilators
   .257 Valves and penstocks
   .258 Overflows and regulators
   .259 Miscellaneous
628.26 River crossings
.27 Intercepting and outfall sewers
.28 Reservoirs and tank sewers
.29 Pumping stations

3 Disposal of sewage
.31 Physical properties of sewage
.32 Deodorization and disinfection of solids and liquids
See also 628.237
.33 Subsidence
.34 Precipitation
.341 Precipitation tanks
.342 Mixing machinery
.343 Filter presses
.344 Precipitation by salts of alumina
.345 By lime
.346 By salts of iron
.347 By other methods
.348 Disposal of sludge
.349 Miscellaneous
.35 Filtration
.36 Irrigation
.361 Broad irrigation
.362 Ridge and furrow irrigation
.363 Flatbed irrigation
.364 Subsurface irrigation
.365 Intermittent downward filtration
.366 Carriers and appurtenances
.367 Drains and drainage of sewage farms
.368 Filtration areas
.369 Miscellaneous
.37 Sewage farming Required modifications of ordinary methods
.38 Sewage manures
.39 Discharge into sea, etc.

4 Sanitation of towns
.41 Middens and privies
.42 Pail systems
.43 Earth closet systems
.44 Domestic ashes and garbage
.45 Public urinals and latrines
.46 Street cleaning and sprinkling
.47 Pavements and subways
.48 Trees in streets and squares
.49 Manufacture of fertilizers from town wastes
628.5 **Industrial sanitation**

- .51 Factories and trades
- .511 Prevention of dust and fumes
- .512 Protection of throat and eyes
- .513 Protection against infection
- .519 Special trades

- .52 Effluvium nuisances
- .521 Situation of works
- .522 Use of high chimneys
- .523 Condensation in water
- .524 Combustion in furnaces
- .529 Special trades

- .53 Smoke nuisance
  - .538 From steam generators
  - .539 From special industries

- .54 Disposal of solid and liquid wastes
  - .541 Discharge into streams
  - .542 Absorbing wells and burial
  - .543 Clarification by subsidence
  - .544 Chemical treatment
  - .545 Filtration
  - .546 Purification by the soil
  - .549 Special methods and special trades

.6 **House drainage**

.7 **Rural water supply: villages and country houses**

.8 **Ventilation and heating** See 697, 644, 628.23, 622.4, 621.19

  This head is chiefly for ventilation. Most matter on heating goes in 691

.9 **Lighting** See 621.32, 537.83, 644, 665

629 **Other branches of engineering**
Aeronautics  Aerial navigation

Usual form division .09 to include general accounts of voyages, but class special voyage with type of machine used

.141   Aerostatics
.142   Aerodynamics, bird flight, soaring
.143   Meteorologic conditions; wind currents etc.
.144   Aerodromes, flying grounds, parks
        Experiment stations, landing places, sheds, hangars
.145   Navigation
        Atmospheric roads, airways; aerial maps, topography; airsickness; disasters
.148   Laws, international and local
.15   Aircraft lighter than air  Aeroship
.151   Nondirigible
        Hot air balloons, montgolfières; pilot balloons; balloon sonde; kite and captiv balloons
.154   Dirigible  Airships
.155   Rigid
.156   Semirigid
.157   Nonrigid
.16   Construction
.161   Gas envelop, material
        Balloon fabrics, netting, gas used, apparatus for inflation
.162   Car or basket, cabin, seats
        Method of attaching to gas envelop
.163   Motors
        See 621.4387
.164   Propellers
.165   Steering apparatus
.166   Balancing
.167   Landing apparatus: anchors, parachutes
.17   Aircraft heavier than air  Aviation
.171   Aircraft
.172   Kites
.173   Gliders
.174   Monoplanes
.175   Biplanes
.176   More than 2 planes
.177   Helicopters
.178   Ornithopters or orthopters
.179   Special adaptations: hydroaeroplanes, aviettes
.18   Construction
.181   Structure
        Planes, wings, ailerons etc.
.182   Seats, cabin, etc.
.183   Motors
        See 621.4387
.184   Propellers
.185   Steering apparatus
.186   Stability, balancing apparatus
.187   Starting and landing apparatus
.19   Applications of aeronautics
.2   Motor vehicles, automobiles
630 Agriculture


631 Farm, farmsted Soil: fertilizers, drainage

.8 Fertilizers

.81 History, nature, uses

.811 Nutrition of plants; necessary principles

.812 Production, preparation, collection, conservation

.813 Composition

.814 Loss of fertilizing principles

.815 Economic value

.816 Use Methods of application and distribution

.817 Purchase Transport Cost

.818 Frauds Adulterations Control; legislation, inspection, analysis

These numbers may be used when wished after any special fertilizer as a subdivision; e. g. 631.8525 Economic value of bone as a fertilizer
631.8733 Composition of seaweed

.82 Mineral amendments

.831 Lime, gypsum, plaster

.832 Marl

.835 Sulfate of iron

.83 Potash fertilizers

.831 Wood ashes, vegetable ashes, burning turf

.832 Chlorids

.833 Sulfates

.84 Nitrogen fertilizers

.841 Ammonia

.842 Nitrates

1 Calcium cyanid

.843 Animal industry residue: skin etc.

See also 831.852 Bone

.844 Fish

.845 Blood

.846 Tankage

.847 Vegetable nitrogen fertilizers

Cotton seed meal, castor beans, pomace

Nitroifying crops

1 Azotin, ammonite, etc.

.85 Phosphoric acid

.851 Natural rock

.852 Bone

.853 Slags

.854 Guano

.855 Superphosphates

.86 Farmyard manures, etc.

631.861-.865 agreeing with 636.1-.5
631.87 Vegetable manures
.871 Muck
.872 Leaves
.873 Seaweed
.874 Green manures
.875 Vegetable compost heap
.876 Residue from vegetable industries
.88 Fertilizer experiments

632 Pests Hindrances Blights Insects
633 Grains Grasses Fibers Tea Tobacco, etc.
.1 Cereals

634 Fruits, orchards, vineyards, forestry
.1 Pomaceous or pome fruits
.2 Drupaceous or stone fruits Prunus
.3 Citrous fruits, orange family, etc.
.4 Minor fruits
.41 Anonaceous fruits, custard apple family
.42 Myrtaceous fruits, myrtle family
.43 Sapotaceous fruits, star apple or sapodilla family
.44 Anacardiaceous fruits, cashew family
.45 Ebenaceous fruits, ebony family
.46 Leguminous fruits, bean family
.5 Nut fruits Nuciculture
.6 Palmaceous fruits; palm family and miscellaneous tree fruits
   Cocoanuts, dates, olives, pomegranates, etc.
.7 Small fruits: bush and herblike fruits
.8 Grapes, vineyards
.9 Forestry

635 Garden crops; kitchen and market gardening
.1 Edible roots, including tubers and bulbs
.2 Tubers and bulbs
.3 Edible leaves or flowers
.4 Greens, pot herbs
.5 Salads
   Generally eaten uncooked
.6 Edible seeds and fruits
.7 Condimental and sweet herbs
.8 Mushrooms, truffles
.9 Floriculture
   See also 716 Plants, flowers
Domestic animals
See also 619 Veterinary medicine; 399.7 Zoology

.1 Horses, asses, mules
See also 682.1 Horseshoeing

.2 Cattle
See also 637 Dairy

.3 Sheep, goats

.4 Swine

.5 Poultry

.6 Birds

.7 Dogs

.8 Cats

.9 Other: camels, etc.

Dairy and dairy products

.1 Milk

Bees, silkworms, etc.
Insects whose products are useful for food or manufactures

.1 Bees, honey, wax

.2 Silkworms

.3 Cochineal

Hunting, trapping, fish culture, etc.
See also 799 for sporting side

.1 Hunting, trapping, game preserves etc.

.2 Fishing as an occupation

.3 Fish culture Pisciculture
   Including turtle, terrapin, frogs

.4 Oysters and other mollusks Shellfish
   Oyster, clam, mussel, snail, pearl fishing, scallop, quohog, cockle, winkle, periwinkle

.5 Crustaceans
   Lobsters, crabs, crawfish, shrimps, prawns

.6 Other sea food
   Sea urchin, echinus

.7

.8 Leeches
Domestic economy

Public as well as private household administration covering work of housekeeper, matron, steward, janitor, etc. in hotels, clubs, apartments, boarding houses, schools, restaurants, factories, offices and other commercial buildings, churches, theaters, railway stations, ships and other public gathering places.

For economics of consumption, including standards of living, see 339; for care of library buildings see 025.9. Numbers for allied subjects in army and navy will be provided under military and naval science. See also 331.83 Food, clothes and shelter of laboring classes.

SUMMARY

641 Food, cookery
642 Serving, entertaining
643 Shelter, house, home
644 Heat, light, ventilation
645 Furniture, furnishings, Decoration
646 Clothing, toilet
647 Administration, household management
648 Sanitary precautions, cleaning
649 Nursery, sickroom

I Theories, utility, etc.
II Compend
III Dictionaries, cyclopedias
IV Essays
V Periodicals
VI Societies
VII Study and teaching

Schools of housekeeping, experiment stations. Investigations of home conditions. For cooking schools see 641.07

Schools and experiment stations

See 630.7 Agricultural schools, farmers institutes; 630.6 Farmers associations, granges, etc; 371.42 Manual training courses; 371.6764 Laboratory equipment for home economics courses; 375.6 Place in curriculum; educational values. 640.711-74 may be used for keeping all phases of the subject in 640

College and university courses and departments

Schools of college grade

Secondary courses; high school

Elementary courses; below high school

Extension work

Courses for special needs: women's clubs, farmers' wives, etc.

Research work: experiment stations, graduate courses

For Sage foundation see 306

Normal courses, teachers institutes, etc.

Exhibits, Museums

9 History

Food, cookery

For physiology of nutrition, see 612.39; for dietetics and dietary standards, 613.2; for food values, 641.1

Gastronomy, Epicurism

Pleasures of eating, esthetics of cookery, epicures (gourmets). For gluttony, see 178.92 and 613.25

Compend

Dictionaries, cyclopedias

Essays, addresses, lectures

Periodicals

Societies

Study and teaching

Cooking schools, classes and clubs

Polygrafs

History and description

Divided like 930-999. Including foods characteristic of different peoples, but for preparation of specific dishes (i.e., recipes) peculiar to special countries see 641.59
Food chemically considered Food values Tables

For methods of chemical analysis see 543.1; for adulterations see 614.3; for commercial preparation or manufacture see 664; for physiology of nutrition see 619.39; for dietetics see 613.2
612.39 treats of physiologic effect of different kinds and quantities of foods from purely scientific point of view, without regard to benefit or injury
613.2 treats of food requirements in special conditions of age or disease and of the beneficial or injurious effects of different kinds of foods
641.1 translates scientific facts into familiar terms for cook and housekeeper, treats of the required amount of the different constituents and their proportion as found in various foods

.11 Organic food constituents
.12 Proteids or nitrogenous foods
   Meat, egs, nuts, legumes, etc. See also 612.398
.13 Carbohydrates or nonnitrogenous foods
   Vegetables, cereals, fruits, sugar See also 612.396
.14 Fats, oils
   See also 612.397
.15 Inorganic food constituents
.16 Water
.17 Salts, mineral or ash constituents

.3 Animal and vegetable foods
Class here also works dealing both with food material and its preparation
Subdivided like 630 (not yet completed); e.g. 641.33 Cereals, 641.34 Fruits

.31 Prices Relativ cost
   Quality and other factors in buying for table

.4 Food preservation Markets
Subdivide like 664 (not yet completed)
For commercial methods see Chemic technology 664.8-.9; for transportation see 656 (subdivision not completed)

.5 Cookery Cook books
General recipes, specific directions, in whatever form (books, cards, etc) for preparing food
Distinction between 612.39, 613.2 and 641.5; in 641.5 class cook books and collections of recipes in which physiologic and hygienic effects of foods (if treated at all) are secondary; in 613.2 class dietaries and selection and preparation of food for special systemic conditions, with recipes subsidiary or with recipes and diet about evenly balanced; in 612.39 class the scientific study of physiologic effects of various foods, regardless of benefit or injury
See also 641.59 Recipes peculiar to special countries: 641.6 Cookery of specific substances; 641.7 Cookery by specific processes; 641.8 Composit dishes, ices, confectionery, beverages

.52 Breakfast
.53 Luncheon, afternoon tea, supper
.54 Dinner
.55 Economic cookery
.56 Special conditions
   Under limitations of age, helth, ethical or religious theories, etc.
.562 Children
.563 Invalids and aged Hospital cookery
.564 Ethical limitations
.565 Religious limitations
.566 Seasons and days: Lent, fast days, etc.
.567 Cults: Jews, Buddhists, etc.
Special situations
Adaptation to large numbers, large variety, and limitations of time, place or appliances

Hotel and restaurant cooking

Army and navy cooking
See also 355

Shipboard cooking
Exclusiv of navy

Camp and travel cooking

Railway dining and buffet cars

Itinerant companies; circuses, etc.
Methods of feeding large numbers en route or in temporary shelters

Camp cooking

Special utensils or fuels

Cooking by oil
Including oil and gas together

Cooking by gas

Cooking by alcohol Chafing dish recipes

Cooking by electricity

Cooking by apparatus heated by steam or hot water

Cooking by slowly applied heat
Aladdin ovens, fireless cookers

Cookery of special countries
Class here descriptions of national cookery or recipes for dishes characteristic of special countries or regions

Frigid zone and cold weather

Tropics and hot weather
Divide farther like 930-999, using these numbers preferably only for reference and shelving books under 641.5-.578

Cookery; clast by material
Subdivide like 641.3 (not yet completed)

Cookery; clast by process

Baking, roasting

Braising

Boiling, simmering Soups

Stewing

Steaming

Broiling, grilling

Frying, sautering

Composit dishes
Ices, confectionery, beverages, etc. See also 641.53 Luncheon, afternoon tea, supper

Entrées Made dishes

Salads

Sandwiches

Confectionery, candies, sweets, bonbons

Ices: ice cream, sherbet, water ices, etc.

Beverages Soft drinks
See also 663 Manufacture of beverages; 663.8 Bartenders manuals, mixing drinks; 613.3 Hygiene of beverages
Serving Table Entertaining

See also 395 Etiquet

1 Home and family meals
   Breakfast, lunch, dinner, supper. Menus and servis
   For tables of chemic constituents and calories see 641.1

2 Refreshments
   Afternoon tea, sandwiches, ices, soft drinks

3 Camp, picnic and travel lunches
   Lists of supplies; suitable food and dishes; packing and accessories. For
   recipes see 641.53; for camp cookery see 641.578

4 Entertaining

   41 Private entertainments
      Luncheons, dinners, etc.

   42 Small numbers

   43 Large numbers
      Receptions, balls, garden parties, etc.

   45 Public entertainments
      Banquets, dinners, clamabakes, etc. For history of banquets, eating, etc.
      see 394.1 under Public and social customs. For dining room see 643.4

   48 Toasts Table anecdotes and conversation
   See also table talk in literary miscellany

5 Table systems for large numbers

   51 Table d’hôte

   52 American plan

   53 European plan, à la carte

   54 Club: choice of combinations

   55 Harvard Memorial hall plan
      Harvard university plan of a fixt charge for essentials, and coupons
      (alimentary milage) for extras

   56 Mixt plan
      Table d’hôte and à la carte; table d’hôte and club

   57 Lunch counters Cafeteria

   58 School lunch rooms
      Management, prices, rules for payment, suitable food, freedom of choice, etc.
      See also 371.716 School meals

6 Serving Carving
   Directions for setting table, changing courses, etc.

7 Table furnishings
   Linen, china, glass, plate, etc. Preferably clast here, tho possible to be con-
   sidered part of 645.66 Dining room furnishings

8 Table decoration
   Selection and effectiv arrangement of flowers colors, lights, centerpieces, etc.
Shelter: house, home

For types of houses and plans see 725, 727 and 728; for materials and construction see 690; for heating and ventilation see 628.8, 644 and 697; for lighting, 628.9 and 644.3; for plumbing and gasfitting see 690; for furnishing see 645.

.1 Location, site

Social and religious character of neighborhood; accessibility, railways, tramways, etc.; nearness to churches, schools, markets, etc. Property increasing or decreasing in value

For hygiene of soil and grounds: city, village or country see 614.77; for Sanitation, water supply and drainage see 628.

.2 Plan

Requirements of house for convenient and economic administration; relative situation and intercommunication of rooms, amount and direction of light, etc.

Special rooms: kitchen, dining room, baths, etc. For detached rooms and buildings see 728.9; for furnishing see 645; for architectural aspect of structural parts of house (foundation, floors, walls, etc.) see 721; for wall finish see 729.31

.3 Kitchen and its equipment

.3.1 Plan: situation and arrangement

Relation to rest of house. Housekeeper's requirements as guide to architect.

Light. For plans see 728 Residences, and 728.93 Detacht kitchens

.3.2 Ventilation

Carrying off odors, etc.

.3.3 Stoves, ranges, cookers, hot tables, fuels

See also 641.58 Cooking by special utensils or fuels

.3.3.1 Fireplaces, open fires: turnspit, crane, etc.

.3.3.2 Coal and wood Stoves and ranges

.3.3.3 Oil and oil stoves

.3.3.4 Gas and gas stoves

Including natural gas and acetylene

.3.3.5 Alcohol and alcohol stoves Chafing dish

.3.3.6 Electricity and electric stoves

.3.3.7 Steam heated cooking appliances Steam tables

.3.3.8 Slow and fireless cookers

Aladdin oven, Norwegian haybox. See also 641.588

.3.4 Machinery and laborsavers

.3.5 Utensils

.3.6 Pastry room

.3.7 Storeroom, larder Refrigerators

.3.8 Care of kitchen and accessory rooms

.3.9

.4 Dining room and adjuncts

.4.5 Serving room Butler's pantry

.4.7 Other pantries

.4.8 Cupboards

.5 Other special rooms

.5.2 Baths, lavatories, toilets

.5.7 Sun rooms, solariums: sleeping balconies, etc.

.5.8 Laundry

Place in house; for equipment see 648. See also 728.93 Detacht laundries

.6 Laborsavers

General: bells, telephones, tubes, lifts, chutes, door openers and closers, etc. See also special subjects; e.g. 648.52 Vacuum cleaners

.7 Repair
Heat  Light  Ventilation

.1 Systems of heating
  Desiderata, relative advantages for household
  For varieties of apparatus and installation see 697; for sanitary engineering see 628.8

.15 Fireplaces  Family hearthstone
  Open fire as household institution; mental influence
  Sanitary advantages. See also 749 Artistic fireplaces

.19 Portable heaters: bedwarmers, warming pans, footwarmers

.2 Fuels
  Relative cost; cleanliness; labor involved, e.g. hauling and carrying wood or coal
  and removing ashes. Chimney sweeping

.21 Wood

.22 Coal

.23 Oil, gasoline, etc.

.24 Gas

.26 Electricity

.3 Systems of lighting
  Fixtures, fittings, accessories. Class here general discussion covering fixtures
  and medium, their relative advantages, etc. For medium alone see 644.31; for
  fixtures see 644.32

.31 Lighting medium
  See also Chemical technology 665

.311 Candles

.312 Oil

.313 Gas

.314 Acetylene

.315 Electricity
  See also 621.32 Electric lighting

.319 Other

.32 Apparatus and accessories
  Subdivide each, if wished, like 644.31

.321 Hand lamps  Candlesticks

.322 Lanterns

.323 Table, banquet and piano lamps

.324 Standards

.325 Wall lamps  Sconces

.326 Chandeliers  Ceiling fixtures

.5 Ventilation
  Most material belongs elsewhere: hygienic influence of air and light 613.1;
  sanitary engineering 628.8; ventilating apparatus 697.9. For advantages of
  fireplaces see 644.15
Furniture, carpets, upholstery  Decoration

For plan and furnishing treated together see 643
See also hygiene 613.59; architectural decoration 729; design 745; artistic furniture 749; manufactures of cotton, wool, etc. 677

.1 Floor coverings: carpets, rugs

.2 Wall coverings

.3 Window and door furnishings

Screens, shades, awnings, draperies

.4 General furniture

See also 645.6 Furnishings for special rooms

.41 Chairs  Footstools

.42 Couches  Settees

.43 Tables

.44 Desks

.47 Cushions, pillows, etc.

.48 Linen

Removable furniture covers, centerpieces, etc. See also 642.7 Table furnishings; 645.67 Bedroom furnishings

.49 Other

.5 Ornaments

Clocks, vases, pictures, statuary, etc. See also 739 Bronzes, brasses, bricabrac

.6 Special rooms

For kitchen see 643.3; for laundry see 648

.61 Hall and stairs

Hat racks, umbrella stands, etc.

.62 Drawing room  Reception room  Parlor

.63 Library

.64 Study or offis

.65 Living room

Class here furnishings of room used as combined reception room, library and living room

.66 Dining room

For table equipment and decoration see 642.7-.8

.67 Bedrooms and nursery

Sleeping balconies, open air bedrooms. Beds and bedding, linen, etc. For nursery see also 649

.68 Bathrooms  Lavatories  Toilets

Fittings and supplies. See also 646.7 Bathing

.69 Other rooms

Music, billiard and ball rooms, picture gallery, servants rooms, cellar, attic

.8 Outdoor space

Verandas, balconies, roof gardens
For sleeping balconies see 645.67. See also 712 Private grounds; 717 Arbors, seats, outlooks
Clothing Toilet

See also ethics of dress, display 177.4; ecclesiastic costume 247.7; clothing as related to economics of laboring classes 311.83; bleaching and dyeing 667.1-3; academic costume 378.29; history of costume 391; clothesmaking 687; hygiene of clothing 613.48; adulteration of textiles 614.37; for uniforms and liveries see occupations to which they pertain

Psychology and economics of fashions
Reasons for change of fashions; expense of fashionable dressing

Compendes

Dictionaries, cyclopedias

Essays, lectures, addresses

Periodicals

Societies Dress reform societies

Study and teaching

Polygrafi

Adaptation to climate or season

Clothing for cold weather and frigid zones

"hot" "tropics

Materials Textils and fibers

With reference to domestic use, or domestic use and hygiene combined. For hygiene of materials see 613.481; for general works on textiles and fibers see 677 Manufacture of textiles

Cotton

Linen Flax Hemp

Wool Mohair, alpaca, camel’s hair, rabbit’s hair, etc.

Silk

Lether

Fur

Other animal materials: fethers, hair, whalebone

Other vegetable materials

Rubber

Paper

Celluloid

Straw Raffia

Other fibers: jute

Other materials Tinsel, aluminum, asbestos, etc.

Sewing Knitting Crochet

For fancywork see 746

Plain sewing

Running, backstitching, hemming, overhanding, etc.

Mending Darning

Knitting and crochet Tatting

For machineknit goods see 677

Crochet

Clothing divided by wearers

Class here trade catalogs; e.g. Liliputian bazar catalog 646.36

See also 391 Costume; 687 Clothesmaking as a trade

Clothing for men

"women

"children
Clothing divided by purpose

Including directions to amateurs for cutting and making, economic use of material, suitability of material for purpose, adaptation of style to material and purpose, choice of color, etc. For limitation to special kinds of garments see subdivisions below; e.g. patterns or catalogs of underwear 646.42

Subdivisions .42-.48 may be farther divided by 2 Men, 4 Women, 6 Children

Underwear

.42 Outdoor house garments

Gowns or dresses, coats, trousers, etc.

.43 Outdoor garments

Cloaks, coats, overcoats, shawls, sweaters, etc. See also 646.5 Hedger, millinery; 646.48 Accessories: gloves, mufflers, etc.

.47 Garments for special purposes

Nights, lounging or smoking, yachting, bathing, hunting, riding, etc.

.48 Accessories

Neckties, collars, cuffs, belts, aprons, caps, handkerchiefs, gloves, mufflers, garnitures, etc.

For outdoor hedgear see 646.5

Millinery

Outdoor hedgear

See 68; Millinery as a business

.52 Hats, caps, etc. for men

.54 Hats and bonnets for women

.55 Other outdoor hedgear for women

Hoods, scarfs, etc.

.56 Hedger for children

.57 For boys

" girls

.6 Cleaning

Drycleaning

For laundry see 648.1

.7 Toilet

Cosmetics

Bathing

Care of hair, nails, teeth, etc.

For historic customs see 391.5-6. See also hygiene, 613.4 care of body

Household organization and administration

.1 Household accounts; finances, cost

See also bookkeeping 657

.2 Personnel

Intelligence offices, employment bureau

Class here regular employees or assistants; for occasional employees see 647.29

For ethical considerations, see 173.8. See also political economy, 331 Labor and wages

.21 Manager

Superintendent, housekeeper, steward. See also 640.8

.22 Male employees

.23 Female

.24 "

Races and nationalities: orientals, negroes, etc.

.25 Indoor servis

Cook, butler, waitress, parlor maid, lady’s maid, chambermaid, nurse, laundress, furnaceman, etc. For housekeeper, steward, etc. see 647.21; for outdoor servis see 647.3

.29 Other employees

Emergency help, household registers

.3 Servis outside the house

Coachman, gardener, laborers
Wages  Hours  Duties

Cooperativ and collectiv housekeeping
Hotels, clubs, apartments, commercial buildings, churches and other public and semipublic establishments or rooms.
See also 692.9 Blding laws; 738 Residence architecture.

Tenements
See also 728.1 Tenement house architecture; 331.83 Housing of laboring classes, including tenement house laws; 613.53 Hygiene of tenements.

Apartments, flats
See also 728.3 Apartment house architecture.

Cooperativ housekeeping
See also 334.4 for economic aspect.

Hotels  Clubs
See also 728.4 Clubhouse architecture; 728.5 Hotel architecture.

Restaurants, tea rooms, etc.
See also 642.5 Table systems for large numbers.

Public bldings  Institutions
General administration and care affecting health and convenience of occupants and public; janitor's duties. May be subdivided if wished like 725; e.g. 647.962 Administration of office bldings, or 647.9623 if so close classification is preferred.
See also 362 Hospitals, asylums, etc.; 365 Prisons.

Cottage systems.

Sanitary precautions: laundry, cleaning

Laundry  Washing
Private, cooperativ, public. For other processes of clothes cleaning see 646.6 Dry cleaning. For sanitary precautions see 648.5-6; for pests see 648.7.

Administration  Accounts
Marking
Equipment
Collective: specifications and cost. Class specific appliances with processes to which they belong.

Hand equipment

Power "

Supplies
Soap, starch, bluing, powders, reagents

Washing
Requirements of temperature, ingredients, etc. for different materials. Washing directions.

Washing by hand
"  machine

Starching

Bluing  Tinting

Drying  Driers  Extractors  Wringers
Confined or open air  Temperature  Effect on dyes of freezing, etc.

Ironing
By hand  Sad iron
Electric and gas heated irons, etc.

By machine  Collar and shirt machines, fluting irons, etc.

Power machinery  Mangle.
648.5  Cleaning and sanitation of house or building
See for sanitary engineering 628; for plumbing 696; for dry cleaning 646.6; for chimney sweeping 644.2

.52  Sweeping and dusting
Floors, walls, moldings, furniture; implements, vacuum cleaners, etc.

.54  Washing
Porcelain, glass, windows, mirrors, paint, including table ware, bricabrac and fixtures. For washing textiles see 648.2

.55  Polishing
Silver, knobs, scutcheons, pipes and other metals

.6  Disinfecting
Waste pipes, traps, etc. Household disinfectants. See also 649.8 Care of sickroom; and public health, 614.48 Disinfecting apparatus

.7  Pests; traps, poisons

649  Nursery  Sickroom
This provides for persons requiring special adjustment of household administration: children and invalids

.1  Care of children
See also 136.7 Child study; 173.5 Duties of parents

.2  Rooms  Nursery

.3  Food
See also 613.22 Diet of infants; 641.5 Cookery for children

.4  Clothing and care of body
See also 646.36 Children's clothing, outfit and making; 646.4 Clothing for various purposes; 613.4 Hygiene of bathing and clothing

.5  Exercise  Recreation
See also 613.7 Hygiene of recreation; 790 Amusements

.55  Amusements: toys, dolls, games

.6  Manners  Habits
See also 173.6 Duties of children

.7  

.8  Care of invalids and the infirm  Sickroom
Communication Commerce

Offis equipment and methods

Writing: material, typewriters, cipher

Abbreviations Shorthand

Theories
Available material
Shading
Position
Detacht vowels
Practicability for general use
Teaching in public schools
For methods see 653.07

Speed
See also 653.046, Verbatim reporting

Applications

Personal notes and records
Correspondence
Amanuensis work
Newspaper work
Shorthand job offises
Official reporting, court and legislativ

Periodicals
If strictly limited to one system, class with that system

Societies

Education
Shorthand schools
Teaching, privately or in classes

History
Divided by countries like 930-999

Abbreviations
Omissions of silent letters, vowels, etc.
Covers desirability, dangers, lists, and all general matter about use of recognized abbreviations. See also 421.4 Phonetic spelling 421.8 Abbreviations

Abbreviation systems

Brief longhand. Fonoscribing, etc. For telegrafic codes, see 652
Covers only systems of quick writing with common characters.

Stenografies
Includes both discussions and systems with arbitrary signs and new characters

Before 1837

Gurney
Gabelsberger
Stolze (Dettmann)
Taylor (Baker; Harding; Odell)
Cross
Scovil
Duployé (Pernin, Sloan)

Phonetic shorthand Phonografies
Limited to phonetic stenografy, i.e. brief sound writing. .5 and .6 include only systems using Isaac Pitman’s consonants

Before Pitman (1837)
Bell
Jones
Williams
Pitman old vowel scale systems

Benn Pitman
Graham
Scott-Brown
Marsh
Thornton
Haven
Allen

Pitman new vowel scale systems

Izaac Pitman
Munson
Longley
Burnz

Connected vowel systems

Lindsley’s takigrafy
Everett
Barrows
Bishop

Foren systems

Divided by languages like 400

The heads above are for English systems or (as in .33) foren systems adapted to
and used for English. Other systems are grouped here by languages, but history
of shorthand in special countries is in 653.09

Telegraf Cables Signals

For codes see 652

Telegrafic instruments

Duplex, quadruplex, multiplex telegrafs, etc.

Printing, perforating, dial telegrafs, etc.

Telegrafic construction; poles, wires, condits, etc.

Cables Submarine

Telefones

Alarms; burglar, fire Annunciators, bells

Speaking tubes Pneumatic tubes

Signals See also 534.83 Navigation signals; 623.7 Military signals

Printing Publishing Copyright

History of printing

Origin, invention

Claims of Gutenberg, Mainz

Claims of Coster, Haarlem

Celebrations, anniversaries

1640

1740

1823

1840

Printing in special countries Divided like 930-999
Type and typesetting

- Type founding
- Electro and stereotyping, etc.
- Patent types, logotypes, etc.
- Faces, sizes, styles
- Typesetting: composition, proofreading
- Imposition
- Typesetting and distributing machines

Practical printing

- Printing presses
- Press work: making ready
- Dryings: hydraulic pressing, etc.
- Stamps, stencils, etc.
- Machines: paging, numbering, addressing, etc.
- Nature printing
- Printing for blind

History of publishing and bookselling

- Selection of mss
- Relations to authors
- Size, paper, type, illustrations, binding
- Cost of manufacture
- Advertising, press copies and notices
- Retail bookselling
- Subscription book publishing, canvassing
- Publishing societies
- Publishing by governments, institutions, etc.

Copyright

- Perpetual or common law right
- Copyright in other matter than books
- International copyright

Transportation: railroading, etc.

Bookkeeping

Business manuals

Other topics
660 **Chemic technology**

- .1 Compends
- .2 Dictionaries, cyclopedias
- .3 Periodicals
- .4 Essays
- .5 Societies
- .6 Study and teaching
- .7 History

of chemic technology

661 **Chemicals**

- .1 Chemic elements
- .2 Acids: sulfuric, nitric, etc.
- .3 Alkalies: potash, soda, ammonia
- .4 Salts
- .5 Ammonia salts
- .6 Sulfates and nitrates
- .7 Cyanids

662 **Pyrotechnics**

- Explosivs, matches, etc.

- .1 Pyrotechnics
- .2 Explosivs
- .3 Gunpowder
- .4 Fuses, percussion caps
- .5 Matches
- .6 Fuel: coal, peat, natural gas, etc.
- .7 Charcoal, coke
- .8 Artificial fuel

663 **Beverages**

- .1 Fermented
- .2 Wine
- .3 Brewd
- .4 Beer
- .5 D stild
- .6 Artificial mineral waters: soda water
- .7 Mixing drinks
- .8 Barkeepers manuals
- .9 Chocolate, cocoa

664 **Foods**

- For Adulterations see 614.3 Public helth.

- .1 Sugar, molasses, glucose, etc.
- .2 Starch, tapioca, sago, etc.
- .3 Artificial butter, oleomargarin
- .4 Salt
- .5 Spices
- .6 Yeast
- .7 Preservation of fruits and vegetables
- .8 " meat and fish
- .9 Domestic economy

See also 641 and 643 Domestic economy

669.8 Metallurgy

See also 644 Domestic economy

669.8 Metallurgy

See also 178 Temperance

614.35 Adulterations

See also 641 and 643 Domestic economy

637 Dairy

641 Cookery
665 Oils Gases Candles Lamps
.1 Candles Torches
.2 Animal oils and fats See also 664.3 Foods
.3 Vegetable oils and fats
.4 Mineral oils: paraffin, ozocerite, asphaltum
.5 Petroleum, kerosene
.6 Lamps See also 644.32 Domestic economy
.7 Illuminating gases Calcium light
.8 Other gases

666 Ceramics Glass, etc.
.1 Glass See also 748 Stained glass
.2 Enamel
.3 Ceramics See also 738 Pottery, porcelain
.4 Clay See also 553.61 Economic geology
.5 Porcelain
.6 Stoneware, earthenware, pottery
.7 Bricks Tiles See also 691.4 Building materials; 695.3 Roofing
.8 Artificial stone See also 691.3 Building materials
.9 Cements Limes Mortars See also 691.5 Building materials

667 Bleaching, dyeing, etc.
.1 Bleaching
.2 Dyeing Artificial colors Silk and wool
.3 Cotton dyeing and calico printing
.4 Inks: writing inks, indelible inks
.5 Printing inks
.6 Paints and pigments See also 698.1 House painting; 751 Fine arts
.7 Varnishes Polish Lacker See also 698.3 Varnishing
.8 Japan Blacking

668 Other organic chemic industries
.1 Soap
.2 Glycerin
.3 Glue
.4 Gums and resins
.5 Essences, perfumery, essential oils and ethers, etc.
.6 Fertilizers See also 631 Agriculture
.7 Distillation: coal tar, etc.

669 Metallurgy and assaying
History of metals goes here, no. in 553, 622, nor 671
.1 Iron and steel
.2 Gold and silver
.3 Copper
.4 Led
.5 Zinc
.6 Tin
.7 Mercury and other metals
.8 Fuels and furnaces Slags
.9 Assaying
Manufactures

Specific topics go where of most interest. These heads are for the general subject of metal, wood, etc. manufactures, and for such specific manufactures as are not of more interest elsewhere. But an account of a specific manufacture is commonly most useful with its own subject; e.g., a steam engine is certainly made of metal, but its manufacture should go under 621.1, not 672. The character of the library often decides the place of greatest interest. An agricultural library would prefer the manufacture and everything about wood churns with the dairy, 637, while a manufacturing library might prefer it with other wood manufactures in 674. A general library will incline to the special subject, as a more minute classification is thus obtained, and references under 670 answer inquiries for all the library has on the subject of brass or rubber or paper manufactures. Whether grouped by use or material, if sought from the other standpoint, the references show the resources promptly. As a rule the use is the better classification, being more minute and often wanted. But if the uses are various the general head is better; e.g., bells are for scores of distinct uses, but their manufacture is a unit; but all churns are for the dairy.

Articles made of metals

671 Of iron and steel; stoves, cutlery, etc.
672 Of brass and bronze; bells, etc. See also 739
674 Lumber and articles made of wood
675 Lether " " " " leather
676 Paper " " " " paper
677 Cotton, wool, silk, linen, etc.
678 Rubber and articles made of rubber
679 Celluloid and other

Mechanic trades Amateur manuals

680 Watch and instrument making
681 Blacksmithing
682 Horseshoeing
683 Lock and gun making
684 Carriage and cabinet making
685 Saddlery and shoemaking Trunks
686 Bookbinding
687 Clothesmaking Hats
688
689 Other trades

684 Furniture. See also 749 Artistic furniture; 694.7 Fine joinery, interior finish.
Bildings

For Architectural construction, see 721

.1 Theories of construction .2 Compendes, manuals .3 Dictionaries, cyclopedias .4 Essays, lectures .5 Periodicals .6 Societies, exhibitions .7 Education, study, training, apprenticeship, tools and their use (for use of special tools see special trade) .8 Collections, patents, inventions .9 History of building construction

Material Processes Preservatives

Wate-proofing See also 620.1 Strength of Materials

.1 Wood Creosoting, etc.
.2 Natural stone Paraffining, etc.
.3 Artificial stone Concrete
.4 Bricks Tiles Other ceramic products
.5 Lime Cement Plaster
.6 Glass
.7 Iron Steel Antirust processes
.8 Other metals
.9 Other materials

Plans Specifications, etc.

.1 General drawings
.2 Detail drawings
.3 Specifications
.4 Contracts Agreements Bids Advertisements
.5 Estimates Quantities Costs
.6 Superintendence
.7 Supervision of accounts
.8 Professional services Fees Commissions
.9 Building laws Liabilities of architects, owners, and contractors

Masonry Plastering Fireproofing

Stone construction

.11 Bonds of stone work
.12 Cutting and dressing of stone

See 515.8 Stereotomy; 736 Stone carving

Brick construction

.21 Bonds of brick work
.22 Adobe or sun-dried brick, etc.

Terra cotta construction

Hollow tile and porous terra cotta construction

Concrete and beton construction

Plastering

.61 External plastering and stucco
.62 Internal plastering
.63 Ornamental plaster work
.64 Scagliola
.65 Wooden lath
.66 Metal lath (Wire, etc.)
.67 Mineral wool linings, etc.

Fireproofing

.8
694 Carpentry: joinery, stairbuilding

1. Wood construction; general
2. Joints of woodwork Framing
3. Strengthened beams
4. Posts Columns See also 721.31
5. Panel and lattist construction
6. Joinery, general For Finishing, varnish, polish, etc. see 698.3
7. Ornamental joinery Cabinet work
   For cabinetmaking see 684
8. Stairbuilding See also 515.83 Stereotomy
9. Other branches See also 721.87-89

695 Roofing: slating, tiling For roof construction see 721.4

1. Shingle
2. Slate
3. Tile
4. Metal: tin, copper, led, zinc
   Iron
5. Asphalt Tar Concrete (Melted)
6. Felt Asbestos Paper (In rolls)
7. Textil: duck, canvas
8. Thatch and other coverings

696 Plumbing Gas and steam fitting, etc.

1. Plumbing For principles of sanitation see 628
2. Gasfitting
3. Steamfitting
4. Rivets and riveted joints
5. Screws and screw joints
6. Rust or calkt joints
7. Anchors Band irons
8. Other branches
9. Plumbing laws See also 614 Public health

697 Heating and ventilation

See also sanitary engineering, 628.8; domestic economy, 644

1. Fireplaces
2. Stoves
3. Furnaces
4. Hot water, high and low pressure
5. Steam, high and low pressure
   For boilers, see 621.184; for power plants, see 621.19
6. Gas: coal gas, water gas, natural gas
7. Electric and other methods
8. Smoke flues and chimneys
9. Ventilation: air ducts, condits, fans
698 Painting Glazing Paperhanging

1. Painting Oil
2. Distemper and fresco
3. Varnishing Polishing
4. Other modes of protection
5. Glazing For stained glass see 748
6. Paperhanging
7. Textile hangings: tapestry
   For tapestry design, see 745
8. Relief work: linoleum, stampt leather, etc.
9. Other branches

699 Carbilding
Fine Arts

700 Fine arts
701 Philosophy: theories, utility, esthetics
702 Compends, outlines
703 Dictionaries, cyclopedias
704 Essays, lectures, addresses
705 Periodicals, magazines, reviews
706 Societies: transactions, reports, etc.
707 Education: study and teaching of art
708 Art galleries and museums
 .1 American: Corcoran, Metropolitan, Boston
 .2 English: National, Hampton Court, Windsor
 .3 German: Dresden, Munich, Berlin, Vienna
 .4 French: Louvre, Luxembourg
 .5 Italian: Vatican, Sistine, Pitti, Medici, Borbonico
 .6 Spanish: Madrid, Seville
 .7 Russian: St Petersburg, Hermitage
 .8 Scandinavian: Copenhagen
 .9 Other countries
709 History of art in general Divided like 930-999

710 Landscape gardening
711 Public parks
712 Private grounds, lawns
713 Walks Drives
714 Water: fountains, lakes
715 Trees Hedges Shrubs
 See also 634.9, Forestry; 582, Botany
716 Plants Flowers
 .1 Plants .2 Flowers .3 Conservatories .4 Window gardens .5 Fermes
717 Arbors Seats Outlooks
718 Monuments Mausoleums
719 Cemeteries See also 393.1 Earth burial; 614.6 Public helth
Architecture

Theories, esthetics, architectonics, compends, manuals, dictionaries, encyclopedias, essays, lectures, periodicals, societies, study, training, schools of architecture, polygraphic collections.

Architecture, history of architecture, divided geographically like 910-999.

Architectural construction

See also bridge engineering, 614.1 Foundations.

Foundations

Foundation bed, nature of soil, load on foundation.

Trial borings. Rock, sand, gravel, peat, quicksand.

Excavation: timbering, shoring.

Material for building foundations.

Divided like 620.1

Wood

Stone, cement, concrete

2 Stone, dimension or rubble

Cement

Concrete

Brick

Pile foundations: general

Material

Sand piles

Wood or timber piles

Concrete piles

Iron piles

Pile foundations: method of sinking

Piledriver

Screw pile, boring anchor

Disk pile

Hydraulic pile

Pneumatic pile

Platform and other special foundations

Timber platforms or gratings: plank foundations

Concrete platforms

Iron and concrete: reinforced concrete platforms

Masonry platforms

Concrete legs or stilts

Cantilever foundations

Subaqueous foundations

Cofferdams

Open crib or caisson, cylinder foundations

Pneumatic caisson

Freezing

Pneumatic forcing

Sunken wells: dredging thru wells

Sunken tubes
Walls
- Wood and halftimberd
- Stone
- Artificial stone, concrete, pisé, etc.
- Brick
- Bases
- Water tables
- Belt courses
- Arcades
- Colonnades
- Cornises
- Gables and pediments

Other walls

Piers  Columns
- Wood
- Stone
- Concrete, artificial stone
- Brick, terra cotta
- Iron, steel
- Fireproof
- Protected

Archt constructions
- Arches, circular
- Arches, other forms
- Vaults, cylindric
- Vaults, groind
- Vaults, other forms
- Domes, circular
- Domes, other forms

Roofs
- Wood
- Masonry
- Glass
- Metallic
- Windows
- Openings in roofs
- Roof decoration: cresting, repoussé work, colored tiles, etc.

Spires and domes
- Gables
- Gable walls
- Other forms of roofs

Floors and flooring
- Wood  Construction and coverings
- Stone
- Brick and hollow tile
- Metallic
- Compound
- Composit
- Parquetry
- Coverings only
- Mosaics
- Tiles
- Roofing tile
- Other coverings
721.7 Ceilings

- .71 Wood
- .72 Stone
- .73 Brick or tiles with iron
- .74 Metallic
- .75 Concrete  Plaster

For vaulted ceilings, see 721.4 and 729.34

.8 Doors  Gates  Grilles  Windows

- .81 Doors, wooden
- .82 Doors, metallic
- .83 Doors, sash, lattis, screen, etc.
- .84 Windows, external
- .85 Windows, internal
- .86 Inclosures of doors and windows
  Architraves  Pilasters  Jambs  Pediments  Lintels, etc.
- .87 Shutters  Blinds  Screens  Grilles
- .88 Fastenings  Locks
- .89 Other details

.9 Iron and composit structures
  For strength of materials, see Engineering, 620.11

- .91 Cast iron
- .92 Wrought iron
- .93 Steel
- .94 Composit
  - .95 Iron and wood
  - .96 Iron and stone
  - .97 Iron and brick, tile, terra cotta
  - .98 Iron and glass
  - .99 Wood and glass

722 Ancient and Oriental architecture (Pagan)
See also 571.8 Prehistoric dwellings

.1 Chinese  Japanese
.2 Egyptian
.3 Phenician  Tyrian  Jewish  Carthaginian  Cypriote
.4 Indian (Asiatic)
  Hindu, Buddhist, Jaina, Himalayan, Dravidian, Chalukyan, Indo-Aryan, Burmese, Siamese, Cambodian
.5 Chaldean  Assyrian  Babylonian  Ancient Persian  Sassanian
.6 Pelasgian  Etruscan
.7 Roman  See 729.32 for Roman orders
.8 Grecian  See 729.32 for Greek orders
.9 Other: Aztec, Peruvian, Maya, Yucatan, etc.
723 Medieval Christian Mohammedan
.1 Early Christian
.2 Byzantine Armenian Russian
.3 Mohammedan: Saracenic, Moorish, Persian, Turkish, Indian For Ancient Indian see 722.4
.4 Romanesque
.4.1 Scotch Irish
.4.2 English Saxon Norman
.4.3 German Austrian
.4.4 French Provençal Norman Angevin
.4.5 Italian - Sicilian Norman
.4.6 Spanish Portuguese
.4.7
.4.8 Danish Swedish Norwegian
.4.9 Minor countries
.5 Gothic or pointed Divided like 723.4

724 Modern
All the subsections of 724 are subdivided geographically like 940-999
.1 Renaissance
.2 Grecian revival
.3 Gothic revival
.4 Victorian Gothic Tudor
.5 Queen Anne
.6 Néo-Grec
.7 Swiss Timber
.8 Romanesque revival
.9 Other styles

725 Public buildings
.1 Administrativ Governmental
.1.1 Capitols Houses of parliament
.1.2 Ministries of war, state, etc.
.1.3 City and town halls Bureaus Public offices
.1.4 Custom houses Bonded warehouses Excise offices
.1.5 Court houses Record offices
.1.6 Post offices, general and special
.1.7 Official residences Palaces of rulers
.1.8 Barracks Armories Police stations
See also 623.6r Military buildings
.1.9 Engin houses Fire alarm stations
725.2 Business and commercial

.21 Stores, wholesale and retail
.22 Mixt store, offis, and apartment bildings
.23 Offis bildings: telegraf, insurance
.24 Banks: safe deposit, savings
.25 Exchanges Boards of trade
.26 Markets
.27 Cattle markets Stock yards
.28 Abattoirs
.29 Other business bildings

.3 Transportation and storage

.31 Railway passenger stations
.311 Small (country) stations
.312 Large (city) “
.313 Union “
.314 Stations on 2 levels
.315
.316
.317 Street-car stations
.318 Elevated railway stations
.319 Underground railway stations
.32 Railway freight houses
.33 Railway shops, roundhouses, car houses, tanks, stores
.34 Dock bildings Wharf boats and houses
.35 Warehouses Cold storage Safe deposit storage
.36 Elevators, grain
.37
.38 Garages Livery stables
For private stables and garages see 728.94
.39 Other

.4 Manufactories

.41 Textil factories or mills: wool, cotton, silk
.42 Breweries Malteries Distilleries
.43 Foundries Machine shops Iron and steel works
.44 Woodworking mills Furniture factories
.45 Carriage and car factories
.46 Paper mills
.47 Mills for flour, meal, feed, etc.
.48 Pottery, glass, terracotta, brick works
.49 Other manufactories
Hospitals and asylums

- Sick and wounded
- Eye and ear
- Incurables
- Lying-in
- Insane
- Idiotic
- Feebleminded
- Blind
- Def and dum
- Paupers
- Almshouses
- Aged
- Children
- Orphans
- Foundling
- Soldiers homes

Prisons and reformatories

- State prisons
- Penitentiaries
- Jails
- Cell houses
- Reformatories for adults
- Houses of correction
- Reform schools
- Washingtonian homes
- Inebriate asylums

Refreshment

- Baths
- Parks
- Cafés
- Restaurants
- Saloons
- Baths: warm, medicated, turkish, russian
- Swimming baths
- Bildings for watering places, spas, etc.
- Bildings for parks

Recreation

- Music halls
- Theaters
- Opera houses
- Halls for lectures, readings, etc.
- Bowling alleys
- Billiard saloons
- Gymnasiums
- Turn halls
- Skating rinks
- Bicycle rinks
- Boat houses
- Riding halls and schools
- Shooting galleries

Other public buildings

- Exhibition halls
- Temporary halls
- Tabernacles
- Wigwams
- Workingmen's clubs and institutes
Ecclesiastic and religious

1. Temples
2. Mosques
3. Synagogues
4. Chapels Sunday school bildings
5. Churches
6. Cathedrals
7. Monasteries Convents Abbeys
8. Mortuary: cemetery chapels, receiving vaults, tombs
9. Other: Y. M. C. A. etc.

Educational and scientific

1. Schools
   Study and recitation rooms. Not including dormitory or boarding
2. Academies Seminaries Boarding schools
3. Colleges Universities
4. Professional and technical schools: law, theology, etc.
5. Laboratories: physical, chemic See 542.1 biologic, etc.
   Zoologic and botanic gardens See also 590.7 and 580.7
6. Museums Herbariums See 580.7
7. Art galleries Studios
8. Libraries See 022 Library bildings
9. Other: learned societies, etc.

Residences

1. Tenement houses
11. City homes of poor
12. Country "
13. Cités ouvrières
2. Apartment houses Flats Family hotels
3. City houses Mansions Palaces
   31. Between party walls Stone
   32. " " Brick
   33. " " Partly wood
   34. Semidetached, including end houses in city blocks Stone
   35. " " " Brick
   36. " " " Partly wood
   37. Detacth Stone
   38. " Brick
   39. " Partly wood
4. Club houses Bildings for secret societies
5. Hotels Inns
51. City hotels
52. Summer resorts
53. Country inns
728.6 Village and country homes
   .61 Village dwellings; on small lots
   .62 Stone
   .63 Brick
   .64 Concrete or stucco
   .65 Part masonry, part wood
   .66 All wood
   .67 Farm houses
   .68 Laborers cottages
.7 Seaside and mountain cottages  Chalets
.8 Country seats
   .81 Castles
   .82 Chateaux
   .83 Manor houses
   .84 Villas
.9 Outbuildings
   .91 Porters lodges
   .92 Servants quarters
   .93 Kitchens and laundries
   .94 Stables  Carriage houses  Garages
      See also 725.38 Public garages and livery stables
   .95 Barns  Granaries
   .96 Dairies
   .97 Ice houses
   .98 Conservatories  Green houses  Graperies
   .99 Other

729 Architectural design and decoration
   For decorative illumination see 745
   .1 The elevation
      .11 Composition
      .12 Distribution
      .13 Proportion
      .14 Light and shade
      .15 Perspectiv effect
      .16
      .17
      .18
      .19

      For projection of shadows and grafics of light and shadow see 515.63 and 515.7
   .2 The plan
      .21 Elements required
      .22 Distribution
      .23 Proportion
      .24
      .25
      .26
      .27
      .28
      .29
Elementary forms

For construction of these forms see 721.

- Walls
- Moldings
- Cornises
- Piers, columns, pilasters, pedestals and the orders
- Arches and arcades
- Vaults and domes
- Roofs
- Spires
- Dormers
- Towers
- Gables and pediments
- Doors and windows
- Bays
- Oriels
- Stairs and balustrades

See also 515.83 Stereotomy; 694.8 Stairbiding

Painted decoration

See also 729.7 Mosaic

- Vegetable forms
- Animal forms
- Grotesque forms
- Conventional and geometric forms
- Painted moldings
- Painted friezes and panels
- Painted columns and pilasters
- Painted ceilings and vaults
- Painted walls

Decoration in relief

For bas relief and figure carving see 730

- Vegetable forms
- Animal forms
- Grotesque forms
- Conventional and geometric forms
- Carved moldings
- Carved friezes and panels
- Carved columns and pilasters
- Carved ceilings and vaults
- Other carved ornament

Incrustation and veneering

- Of external walls (in brick, stone, or marble, tiles, etc.)
- Of interiors
- Intarsia and inlay
- Niellowork
- Enamel decoration
Mosaic

- Mosaic ceiling
- Mosaic walls
- Mosaic floors
- Other mosaic designs

Stained glass design

For technical processes see 666.1; for history see 743

- Geometric windows
- Medallion windows
- Canopy windows
- Figure windows
- Mosaic windows
- Other kinds of stained glass

Architectural accessories and fixt furniture

- Altars
- Pulpits Tribunes
- Dais Thrones
- Buffets
- Mantels Overmantels
- Screens Rood screen Reredos

Sculpture

Materials and methods

Ancient

Greek and Roman

Medieval

Modern

Carving Seals Dies Gems Cameos

Numismatics Coins Medals

Pottery Porcelain

Bronzes Brasses Bricabrac
Drawing  Decoration  Design
Freehand  Crayon  Sketching from nature
Caricatures  Cartoons
Collections on any subject go with that subject with reference from 741
Perspectiv  See also 515.6
Art anatomy  Life school
Mathematic and scientific drawing  See 515
Ornamental design: woven fabrics, carpets, wall paper, etc.
Art needlework  Fancy work
Interior decoration  Distemper  Fresco  Polychrome
Stained and iridescent glass  For staining, see 698.5
Artistic furniture  Fireplaces  Frames, etc.

Painting
Materials and methods
Color  See also 535.6 Optics
Epic  Mythic  Idealistic  See 759.3 German school
Genre  Still life  See 759.4 French; and 759.9 Belgian
Religious, ecclesiastic  See 759.5 Italian; and 759.6 Spanish
Historical, battle scenes
Portrait
Landscape and marine  Animals  Flowers
Various schools of painting
.1  American
.2  English
.3  German
.4  French
.5  Italian
.6  Spanish
.7  Slavic
.8  Scandinavian
.9  Other schools
Engraving

Wood
Copper and steel
Lithography
Chromolithography
Line and stipple
Mezzotint and aquatint
Etching Dry point
Bank note and machine
Collections of engravings

Photography

Materials Photographic chemistry
Silver processes: daguerreotype, talbotype
Collodion process: ambrotype, etc. Dry plate processes
Gelatin and pigment processes: woodbury-type Carbon process: lambertype, autotype, etc.
Gelatin and printer's ink processes: albertype, heliotype, artotype, etc.
Photolithography, etc.
Photozincography, etc.
Photoengraving and photoelectrotypin
Special applications

Collections of photographs

See 522.63 Astronomy. See 578 Microscopy
Music

.1 Philosophy and aesthetics of music
.2 Compendies
.3 Dictionaries
.4 Essays
.5 Periodicals
.6 Societies
.7 Education, conservatories
.8 Polygraphy, libraries
.9 History, divided by countries, like 930-999

All beds include the music itself and everything about it: score, libretto, history, criticism, etc.

781 Theory of music

.1 Mathematic and physical
.2 Elementary and general
.3 Harmony, Thorobass
.4 Counterpoint
.5 Musical form
.6 Composition and instrumentation
.7 Oriental theories and forms, Russian music
.8 Ancient Grecian theories, modes, and forms

782 Dramatic music

.1 Grand opera
.2 Epic Wagnerian
.3 Other German grand opera
.4 French grand opera
.5 Italian grand opera
.6 Comic and satiric
.7 Opera bouffe
.8 Operettas and cantatas
.9 Pantomimes, masks, etc.

783 Sacred music

See 245 Hymnology, sacred poetry, for hymns alone; if with tunes they go in 783.9.

.1 Organ and orchestral Accompaniment
.2 Cathedral services: masses, vespers, etc.
.21 Mass
.22 Common of the mass: kyrie, gloria in excelsis, credo, benedictus, Agnus Dei
.23 Proper of the season: offertory, sequence, gradual, tract
.24 Choral servis: antiphonal, responsiv
.25 Plain song
.26 Litanies
.27 Lenten and penitential: Good Friday, reproaches
.28 Festival: Christmas, Easter, etc.
.29 Processional, Recessional
.3 Oratorio, Passion music
.4 Anthem, Motet, Sacred cantata
.5 Chant: Gregorian, Anglican
.6 Chorale, Tune, Carol
.7 Evangelistic: mission, revival, Sunday school
.8 Choir: men and boys, Quartet, Chorus
.9 Congregational singing, Psalmody, Hymnody
Vocal music

1. Glee Madrigal Round Catch
2. Aria Cavatina Recitative; e.g. in oratorio, mass, opera
3. Ballad and song
   Romantic, idyllic, sentimental; e.g. modern German
4. Popular ballads Volkslied; e.g. Irish, Scotch, etc.
5. Festival; e.g. sängerbund, eisteddfod Competitiv
6. College, society songs, and choruses
7. Negro minstrelsy, plantation songs
8. Collected songs
   8.1 Solos
   8.2 Duets
   8.3 Trios
   8.4 Quartets
   8.5 Other part songs
   8.6 Choruses
   8.7 Collections for male voices
   8.8 Collections for female voices
   8.9 Other special collections
9. Vocal hygiene, culture, development, and methods Tonic sol-fa

Orchestral music

For dramatic orchestral music, see 782; sacred, 783.1

1. Symphony
   Three or more movements; e.g. adagio, andante, allegro, allegretto, scherzo finale, etc.
2. Dramatic, illustrativ, descriptiv, program, imitativ
   e.g. Mendelssohn's Midsummer night's dream
3. Romantic, idyllic
4. Overture: e.g. Beethoven's Leonores
5. Concerto: orchestral with solo instrument
6. Chamber music
7. Suite
8. Arrangements, transcriptions, potpourris
Piano and organ

.1 Piano History
.2 Manufacture Tuning Temperament
.3 Instruction
.4 Piano music General collections
  For piano concerto, see 785.6
.41 Sonata Sonatina Rondo
.42 Fantasia Arabesque
.43 Nocturne Meditation Romantic Descriptiv
  Songs without words
.44 March and march form Polonaise Polka Mazurka
.45 Dance form: national, classic, idealized
.46 Modern dance music Society, festiv
.47 Etudes Artistic For études for instruction, see 786.3
.48 Variations, transcriptions
.49 Arrangements
  Four hands and more; e.g. orchestral music arranged for piano

.5 Organ History
.6 Building
.7 Instruction
.8 Organ music See also 783 Sacred music
.81 Sonata
.82 Fugue
.83 Preludes
.84 Interludes
.85 Postludes
.86 Offertories
.87 Voluntaries Improvisations
.88 Organ and piano
.89 Organ, piano, and orchestra

.9 Cabinet organ Melodeon

Stringed instruments
Including with each, history, manufacture, instruction, music, etc. Music for 2
instruments is put with the one most prominent in the composition

Bowd
.1 Violin
.2 Viola
.3 Violoncello
.4 Double bass Contra bass
  Plectral
.5 Harp
.6 Guitar Lute Mandolin, etc.
.7 Banjo
.8 Zither
.9 Other stringed instruments Harpsichord
Wind instruments
Including with each, history, manufacture, instruction, music, etc.

Brass
.1 Trumpet: slide and valve
.2 Trombone
.3 Cornet
.4 Horns and other brass wind instruments
.41 French horn
.42 Saxhorn
.43 Saxophone
.44 Euphonium
.45 Ophicleide
.46 Key bugle
.47 Valve bugle
.48 Bass Tuba and contrabass tuba Serpent
.49 Other

Wood: flute group
.5 Flute Waldflute Piccolo Fife Flageolet

Wood: reed group
.6 Clarinet Bass clarinet Bassethorn
.7 Oboe D'amore Da caccia Cor anglais
.8 Bassoon Double bassoon Bombardon
.9 Other reed wind instruments: bagpipe

Percussion and mechanical instruments

Percussion
.1 Drum
.2 Cymbals
.3 Triangle
.4 Tambourine Castanets Bones
.5 Bells: chimes, carillon
.6 Other percussion instruments: xylophone

Mechanical
.7 Orchestron
.8 Music box
.9 Other mechanical instruments
Amusements

For ethics of amusements, see 173

Public entertainment
Concert, panorama, circus, menagerie, summer resort, garden, rink, museum, fair, festival

Theater  Pantomime  Opera
See also 782 Dramatic music

Indoor amusements
Private theatricals, tableaux, charades, dancing

Games of skill
Chess, checkers, billiards, bowling, bagatelle

Games of chance
Cards, dice, backgammon, dominoes

Outdoor sports
Children’s sports, athletic sports, coasting, skating, cycling, quoits, archery, croquet, lawn tennis

Boating and ball
Rowing, yachting, baseball, football, cricket, polo

Horsemanship and racing

Fishing, hunting, target shooting
The classification of literature is by language, not country, except that North and South American are separated from other English. Canadian French goes with 840; Australian and Indian English with 850; South American Spanish with 860, etc. Numbers assigned to individual authors include only their literary works of that section and complete works which can not be divided. Books on other subjects go with their proper subjects, unless a "special library" attracts all the authors' works, lives, etc. An author writing in 2 periods has all his books put in the one where most of them belong.

800 Literature: general works
801 Philosophy Theories Literary esthetics
802 Compends, outlines
803 Dictionaries, cyclopedias
804 Essays, lectures, addresses
805 Periodicals, magazines, reviews
806 Societies: transactions, reports, etc.
807 Study and teaching of literature
808 Rhetoric Treatises Collections
  Divided .1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory, see also 784.9 Vocal culture .6 Letters, epistolography .7 Satire, humor .8 Collections too general to go with any one language, e. g. a book of quotations from many languages
  These, and the same under 809, include only works about poetry, etc. regardless of language
809 History of literature in general
  Including general histories of books and knowledge; e. g. Hallam's Literature of middle ages
  Divided like 808 .1 Poetry .2 Drama .3 Fiction, etc.
## American literature

Includes Canadian English

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### American poetry

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<td>Austen, Jane</td>
<td>1775-1817</td>
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<td>Porter, Jane</td>
<td>1776-1850</td>
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<td>Peacock, Thomas Love</td>
<td>1785-1866</td>
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<td>Galt, John</td>
<td>1779-1839</td>
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<td>Marryat, Frederick</td>
<td>1792-1848</td>
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<tr>
<td>Minor writers</td>
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<tr>
<td>Victorian period</td>
<td></td>
<td>1837-1900</td>
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<tr>
<td></td>
<td>Bronté, Charlotte</td>
<td>1816-55</td>
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<td></td>
<td>Thackeray, William Makepeace</td>
<td>1811-63</td>
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<td>Dickens, Charles</td>
<td>1812-70</td>
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<td>Lytton, Edward George Bulwer, 1st baron</td>
<td>1803-73</td>
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<td>Kingsley, Charles</td>
<td>1819-75</td>
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<td>Beaconsfield, Benjamin Disraeli, 1st earl of</td>
<td>1805-81</td>
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<td>Trollope, Anthony</td>
<td>1815-82</td>
</tr>
<tr>
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<td>Cross, Mary Ann (Evans) Lewes [George Eliot]</td>
<td>1819-80</td>
</tr>
<tr>
<td>Minor writers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Early 20th century</td>
<td></td>
<td>1901-</td>
</tr>
</tbody>
</table>
824  English essays

.3  Elizabethan  1558–1625
    Francis Bacon 1561–1626

.4  Post-Elizabethan  1625–1702
    John Locke 1632–1704

.5  Queen Anne  1702–45
    Shaftesbury, Anthony Ashley Cooper, 3d earl of  1671–1713
    Addison, Joseph  1672–1719
    Steele, Sir Richard  1671–1729
    Budgell, Eustace  1686–1737

.6  Later 18th century  1745–1800
    Moore, Edward  1712–57
    Kames, Henry Home, lord  1696–1782
    Johnson, Samuel  1709–84
    Hume, David  1711–76  See also 192.4
    Hawkesworth, John  1715–73
    Goldsmith, Oliver  1728–74  See also 821.64 and 823.64
    Gibbon, Edward  1737–94

.69  Minor writers

.7  Early 19th century  1800–37
    Mackintosh, Sir James  1765–1832
    Smith, Sydney  1771–1845
    Jeffrey, Francis, lord  1773–1850
    Brougham, Henry, 1st baron  1778–1868
    Lamb, Charles  1775–1834
    Hazlitt, William  1778–1830
    Hunt, Leigh  1784–1859

.79  Minor writers

.8  Victorian period  1837–1900
    De Quincey, Thomas  1785–1859
    Carlyle, Thomas  1795–1881
    Macaulay, Thomas Babington, 1st baron  1800–59
    Helps, Sir Arthur  1817–75
    Arnold, Matthew  1822–88
    Ruskin, John  1819–1900

.89  Minor writers

.91  Early 20th century  1901–
825 English oratory  

For 'speakers' see 808.5

Subdivided by periods like 821

.6 Later 18th century 1745–1800

.61 Chatham, William Pitt, 1st earl of 1708–78

.62 Burke, Edmund 1729–97

.63 Fox, Charles James 1749–1806

.64 Sheridan, Richard Brinsley 1751–1816  See also 822.66

.65 Grattan, Henry 1750–1820

.66 Pitt, William 1759–1806

826 English letters  

Subdivided by periods like 821

.2 Pre-Elizabethan 1400–1558

Paston letters

.5 Queen Anne 1702–45

.51 Montagu, Lady Mary (Pierrepont) Wortley 1690–1762

Chesterfield, Philip Dormer Stanhope, 4th earl of 1694–1773

.6 Later 18th century 1745–1800

.61 Orford, Horace Walpole, 4th earl of 1717–97

.62 Montagu, Mrs Elizabeth (Robinson) 1720–1800

827 English satire and humor

.2 Pre-Elizabethan 1400–1558

.21 Barclay, Alexander 1475–1552

.3 Elizabethan 1558–1625

.31 Gascoigne, George 1537–77

.32 Harington, Sir John 1561–1612

.33 Hall, Joseph 1574–1656

.34 Marston, John 1575–1634

.35 Donne, John 1573–1631

.36

.37

.38

.39

.4 Post-Elizabethan 1625–1702

.41 Wither, George 1588–1667

.42 Butler, Samuel 1612–80

.43 Marvell, Andrew 1620–78

.44 D’Urfey, Thomas 1625–1723

.45 Oldham, John 1653–83

.46 Brown, Thomas 1663–1704

.47 King, William 1663–1712

.48 Garth, Sir Samuel 1665–1719

.49 Minor writers
Queen Anne 1702-45
- Ward, Edward 1667-1731
- Swift Jonathan 1667-1745
- Mandeville, Bernard de 1670-1733
- Arbuthnot, John 1675-1735
- Pope, Alexander 1688-1744 See also 821.53

Later 18th century 1745-1800
- Churchill, Charles 1733-65
- Amory, Thomas 1691-1788
- Whitehead, Paul 1710-74
- Junius pseud. 1679-1772
- Wolcott, John [Peter Pindar] 1738-1819

Early 19th century 1800-37
- Gifford, William 1757-1826
- Hood, Thomas 1798-1845

Victorian 1837-1900
- Jerrold, Douglas 1803-57

Early 20th century 1901-

English miscellany
Anecdotes, ana, epigrams, quotations, etc. If illustrative of any special subject (e. g. biography, history, science, art), go with that subject. If general they go in 828; if limited to any period, they take the same divisions as 821. For riddles, see 398.6; Proverbs, see 398.9. The same rule applies to other languages in 838, 848, etc.

Anglo-Saxon literature
- Poetry
- Cædmon
- Beowulf
- Cynewulf
- Homilies and religious
- Ælfric
- Alfred the Great
- Miscellaneous
- Historic and biographic
German literature

830 Philosophy .2 Compends .3 Dictionaries .4 Essays, lectures and addresses on German literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

831 German poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic .06 Descriptive .07 Satiric and humorous .09 History of German poetry

Before the Crusades — 1150

.01 Hildebrandslied
.12 Otfried
.13 Ludwiglied
.14 Muspilli

Middle high 1150–1300

.21 Nibelungenlied
.22 Gudrun, and minor folk epics
.23 Heinrich von Veldeke
.24 Woltfram von Eschenbach
.25 Gottfried von Strassburg
.26 Hartmann von Aue
.27 Walther von der Vogelweide
.28 Ulrich von Lichtenstein
.29 Minor writers

Period of decline 1300–1517

.31 Horneck, Ottokar von
.32 Hadamar von Laber
.33 Hermann von Sachsenheim
.34 Büheler, Hans Die sieben weisen meister
.35 Kaspar von der Röhn Das heldenbuch
.36 Theuerdank
.37 Die Haimonskinder
.38 Mastersingers
.39 Minor writers

Reformation; new high 1517–1625

.41 Agricola, Martin 1486–1556
.42 Waldis, Burkard 1490–1558
.43 Alberus, Erasmus 1500–53
.44 Sachs, Hans 1494–1576
.45 Ringwaldt, Bartholomäus 1530–99
.46 Rollenhagen, Georg 1542–1609
.47 Andreae, Johann Valentin 1586–1654

Period of imitation 1625–1750

The Silesian schools

.51 Opitz von Boberfeld, Martin 1597–1639
.52 Flemming, Paul 1609–40
.53 Logau, Friedrich von 1604–55
.54 Gerhardt, Paul 1607–76
.55 Hofmannswaldau, Christian Hofmann von 1618–79
.56 Zesen, Philipp von 1619–89
.57 Brockes, Barthold Heinrich 1680–1747
.58 Bodmer, Johann Jakob 1698–1783
.59 Minor writers
831.6 Classic period 1750–1830

For Götze and Schiller, see 832.6

.61 Gellert, Christian Fürchtegott 1715–69

.62 Klopstock, Friedrich Gottlieb 1724–1803

.63 Bürger, Gottfried August 1748–94

.64 Herder, Johann Gottfried von 1744–1803

.65 Voss, Johann Heinrich 1751–82

.66 Körner, Karl Theodor 1791–1813

.67 Hölderlin, Johann Christian Friedrich 1770–1843

.68 Platen Hallermünde, August, graf von 1796–1835

.69 Minor writers

7 Postclassic period 1830–56

.71 Arndt, Ernst Moritz 1769–1860

.72 Eichendorff, Joseph, freiherr von 1788–1857

.73 Uhland, Johann Ludwig 1787–1862

.74 Rückert, Friedrich 1789–1866

.75 Heine, Heinrich 1799–1856

.76 Niembsch von Strehlenau, Nikolaus 1802–50


.78 Freiligrath, Ferdinand 1810–76

.79 Minor writers

8 Later 19th century 1856–1900

.81 Schéfer, Leopold 1784–1862

.82 Kinkel, Johann Gottfried 1815–82

.83 Geibel, Emanuel 1815–84

.84 Bodenstedt, Friedrich Martin 1819–92

.85

.86

.87

.88

.89 Minor writers

.91 Early 20th century 1901–

832 German drama

5 Period of imitation 1625–1750

.51 Gryphius, Andreas 1616–64

.52 Lohenstein, Daniel Casper 1635–83

.53 Weise, Christian 1642–708

.54 Gottsched, Johann Christoph 1700–76

.55 Gottsched, Luise Adelgunde Victoria (Culmus) 1713–62

6 Classic period 1750–1830

.61 Lessing, Gottlob Ephraim 1729–81

.62 Götze, Johann Wolfgang von 1749–1832

.63 Schiller, Johann Christoph Friedrich 1759–1805

.64 Klinger, Friedrich Maximilian 1753–1831

.65 Iffland, August Wilhelm 1759–1814

.66 Kotzebue, August Friedrich Ferdinand von 1761–1819

.67 Werner, Friedrich Ludwig Zacharias 1768–1823

.68 Kleist, Heinrich Bernt Wilhelm von 1777–1811

.69 Minor writers
Postclassic period 1830–56
- Grabbe, Christian Dietrich 1801–36
- Griezenkerl, Wolfgang Robert 1810–36
- Grillparzer, Franz 1791–1872
- Birch-Pfeiffer, Charlotte 1800–68
- Münch-Bellinghausen, Eligius Franz Joseph [Friedrich Halm] 1806–1866
- Laube, Heinrich 1806–84
- Hebbel, Friedrich 1815–63
- Gutzkow, Karl Ferdinand 1811–78
- Minor writers

Later 19th century 1856–1900
- Benedix, Julius Roderich 1811–73
- Mosenthal, Salomon Hermann 1821–77
- Brachvogel, Albert Emil 1824–78
- Gottschall, Karl Rudolph 1823–
- Lindau, Paul 1839–
- Minor writers

Early 20th century 1901–

German fiction

Period of imitation 1625–1750
- Buchholtz, Andrew Heinrich 1607–71
- Grimmelshausen, Hans Jakob Christoffel von 1625–76
- Anselm, Heinrich 1653–97
- Robinsonaden
- Der Neue Amadis

Classic period 1750–1830
- Wieland, Christoph Martin 1733–1813
- Richter, Jean Paul Friedrich 1763–1825
- Hardenberg, Friedrich von [Novalis] 1772–1801
- Hoffmann, Ernst Theodor Wilhelm 1776–1822
- La Motte Fouqué, Friedrich H; C; 1777–1843
- Arnim, Ludwig Achim von 1781–1831
- Hauff, Wilhelm 1802–27
- Chamisso, Adelbert von 1781–1838
- Minor writers

Postclassic period 1830–56
- Zschokke, Johann Heinrich Daniel 1771–1848
- Brentano, Clemens 1778–1842
- Tieck, Ludwig 1773–1853
- Postl, Karl [Charles Sealsfield] 1793–1864
- Häring, Wilhelm [Willibald Alexis] 1798–1871
- Hahn-Hahn, Ida, gräfin von 1805–80
- Gerstäcker, Friedrich 1816–72
- Hackländer, Friedrich Wilhelm 1816–77
- Minor writers

Later 19th century 1856–1900
- Auerbach, Berthold 1815–82
- Freytag, Gustav 1816–95
- Scheffel, Joseph Viktor von 1826–96
- Spielhagen, Friedrich 1829–
- Heyse, Paul Johann Ludwig 1830–
- Ebers, Georg 1837–98
- Minor writers

Early 20th century 1901–
German essays Subdivided by periods like 831
German oratory " "
German letters " "
German satire and humor

Middle high: minnesingers 1150–1300
[Stricker, Der] Der Pfaffe Amis und Beispiele
Solomon and Morof
Period of decline 1300–1517
Reineke Vos See also 839:371
Brant, Sebastian 1438–1521
Reformation: new high 1517–1625
Murner, Thomas [Tyll Eulenspiegel] 1475–1537
Fischart, Johann 1550–89
Period of imitation 1625–1750
Moscherosch, Johann Michael 1601–69
Rachel, Joachim 1618–69
Wernicke, Christian 1660–1720
Lisow, Christian Ludwig 1701–60
Classic period 1750–1830
Rabener, Gottlieb Wilhelm 1714–71
Blumauer, Aloys 1755–98

Minor Teutonic literatures

Subdivided by form, poetry, drama, etc. like 830

Low German

Frisian

Old Saxon

Dutch literature Flemish

Dutch poetry

Middle ages 1200–1450
1 Jacob van Maerlant 1235–1291 (2. Heinrije van Veldeke 1200, see 831.23) 3 Jan van Brabant 1250–1294 4 Melis Stoke 1310 5 Dirck Potter 1428
Chambers of rhetoric 1450–1600
1 Antonius de Rovere 1482 2 Anna Bijns 1500 3 Matthijs de Castelein 1488–1548 4 Cornelia Everaert 1530 5 Jan Baptist Houwaert 1533–1599 6 Dirk Volkerssohn Coornhert 1522–1590 7 Philipp Marnix 1538–1598 8 Cornelis van Ghistele 1600 9 Minor writers
Period of the Republic 1600–1700
Poetic societies 1700–1800
Modern period 1800–
1 Willem Bilderdijck 1756–1831 2 Jan Frederik Helmers 1767–1813 3 Cornelis Loots 1765–1834 4 Hendrik Tollens 1780–1856 5 Isaac da Costa 1798–1860 6 Jan Jacob Lodewijk ten Kate 1819 9 Minor writers
Dutch drama

Period of the Republic 1600–1700

Poetic societies 1700–1800

Modern period 1800–
1 Samuel Iperussoen Wieselius 1769–1845 2 Helvetius van den Bergh 1795–1865 3 Hendrik Jan Schimmel 1825–1906

Dutch fiction

Poetic societies 1700–1800
1 Elisabeth Bekker Wolff 1738–1804 2 Agatha Deken 1741–1804 3 Rhijnvis Feith 1753–1824

Modern period 1800–

Dutch essays

Poetic societies 1700–1800
Justus van Effen 1684–1735

Modern period 1800–
1 Johannes Henricus van der Palm 1763–1840 2 Reinier Cornelis Bakhuizen van den Brink 1810–1865 3 Everhardus Johannes Potgieter 1808–1875 4 Nicolaas Beets 1814–1903 5 Coenraad Busken Huet 1826–1886

Dutch satire and humor

Middle ages 1200–1450
Reinaert (van den vos Reinaerde) see 837.31

Poetic societies 1700–1800
Arend Simonszoon Fokke 1755–1812

Dutch miscellany

The subdivisions of 8 show the leading writers in other branches of knowledge
In classification, books are placed with their subjects, theology, history, etc.

Middle ages 1200–1450
Jan van Boendale (Jan de Clerc) Chronicles, 1280–1365

Poetic societies 1700–1800
Simon Stijl, History, 1731–1804; Jan Wagenaar, History, 1709–1773

1 Sparken Deutsch

4 Scandinavian

5 Old Norse 6 Icelandic 7 Faroese

Old Norse

Swedish literature

Swedish poetry

Middle ages 1200–1520
1 Nicolaus Hermanni 1391 2 Bishop Tomas 1443 3 Eriacus Olai 1486 4 Ballads (Folkvisor)

Reformation 1520–1640
1 Olaus Petri 1496–1552 2 Laurentius Petri 1499–1573

Age of Stjernhjelm 1640–1740

Age of Dalin 1740–1780

Age of Gustavus 1780–1800
Modern period

1800-
1 Per Henrik Ling 1776-1839
2 Johan Olof Wallin 1779-1839
3 Essias Tegnér 1782-1840
4 Erik Johan Stagnelius 1793-1823
5 Per Daniel Amadeus Atterbom 1790-1833
6 Karl Jonas Ludwig Almqvist 1793-1806
7 Johan Ludvig Runeberg 1804-1877
8 Karl Wilhem Böttiger 1807-1879
9 Minor writers

Swedish drama

Reformation

1520-1640
1 Johan Messenius 1570-1637
2 Magnus Olai Asteropherus 1647
3 Andreas Johannis Prytz 1590-1655

Age of Stenbock

1640-1740
Isak Börk -1701

Age of Gustavus

1780-1800
1 Karl Israel Hallman 1732-1800
2 Gustaf 3 (king) 1746-1792
3 Olof Kexäl 1748-1796
4 Karl Evaldsson 1756-1806

Modern period

1800-
1 Johan Börjesson 1790-1866
2 Bernhard von Beskow 1796-1868
3 August Teodor Blanche 1811-1868
4 Johan Kristoffer Jolin 1818-1884
5 Frans Hedberg 1828-1908
6 Per Johan Edvard Backström 1821-1886

Swedish fiction

Age of Dalin

1740-1780
1 Jakob Henrik Mörk 1714-1763
2 Jakob Vallenberg 1746-1778

Modern period

1800-
1 Sofia Margareta von Knorring 1797-1848
2 Magnus Jakob Crusenstolpe 1795-1860
3 Fredrika Bremer 1801-1866
4 Karl Anton Wetterbergh (Onkel Adam) 1804-89
5 Emilie Pfygarc Carlén 1807-1892
6 Zakris Topelius 1818-1899
7 Viktor Rydberg 1820-1893
9 Minor writers

Swedish essays

Modern period

1800-
1 Benjamin Karl Henrik Höijer 1767-1812
2 Lorenzo Hammarskold 1785-1827
3 Bernhard Elias Malmström 1816-1865
4 Karl Julius Lénström 1811-93
5 Gustaf Håkan Jordan Ljunggren 1823-1905
6 Karl Rupert Nyblom 1832-

Satire and humor

Modern period

1800-
1 Johan Anders Wadman 1777-1837
2 Erik Sjöberg (Vitälis) 1794-1828
3 Kristian Erik Pahlcrantz 1790-1866
4 Vilhelm August Detlof von Braun 1813-1860
5 Gunnar Wennerberg 1817-

Swedish miscellany

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification, books are placed with their subjects, Theology, History, etc.

Middle ages

1200-1320
Canon Mattias, Bible translation, -1350; Peder Månsson, Encyclopedita, -1534

Reformation

1520-1640
1 Peder Andersson Svart, History, -1562
2 Erik Göransson Tegel, History, 1580-1636
3 Gregors Gis, History, 1580-1639
4 Gustafus Adolphus (king), History, 1594-1632

Age of Stenbock

1640-1740
1 Olof Rudbeck, Medicin, 1630-1702
2 Urban Hårne 1641-1724
3 Johan Peringskjdöld, History, 1654-1720
4 Anders Rydelius, Philosophy 1671-1738
5 Anders Celsius, Astronomy, 1701-1744
6 Emanuel Swedenborg, Theology, 1688-1772

Age of Dalin

1740-1780
1 Karl Gustaf Tesain, History, 1695-1770
2 Karl von Linné, Botany, 1707-1778
3 Johan Ihre, Philology, 1707-1780
4 Sven Lagerbring, History, 1707-1787
5 Anders Johan von Höpken, History, 1712-1790
6 Olof Celsius, History, 1716-1794
7 Anders af Botin, History, 1724-1790
8 Torbern Olof Bergman, Chemistry, 1735-1824
9 Karl Wilhem Scheele, Chemistry, 1742-1796

Modern period

1800-
1 Erik Gustaf Geijer, History, 1783-1847
2 Anders Magnus Strinnholm, History, 1786-1852
3 Anders Fryxell, History, 1795-1881
4 Frederik Ferdinand Carlson, History, 1811-1887
Danish and Norwegian literature

839.8

Danish and Norwegian poetry

81

Middle ages

Mårten 1000-1500

- Anders Suneisen 2 Ballads (Kjempeviser)

Reformation

- Hans Tavsøen 1500-1560

Learned period

- Hans Arrebo 1587-1637 2 Anders Bording 1619-1677 3 Peder Sørensen 1617-1702 4 Thomas Kingo 1634-1703 5 Peder Dass 1667-1708 6 Dorte Engelbrechtsdatter 1635-1716 7 Søren Terkel 1661 8 Jacob Vorm 1642-1693

Age of Holberg

- Jørgen Sørup 1662-1723 2 Tøger Reenberg 1656-1742 3 Kristian Falster 1690-1752 4 Hans Adolph Bronson 1694-1764 5 Ambrosius Stub 1705-1758 6 Kristian Frederik Wadskjær 1712-1779

Period of enlightenment


Modern period


Danish and Norwegian drama

82

Learned period

- Hieronimus Justesen Rauch 1539-1607 2 Hans Kristensen Sibehøj 1544-1603 3 Peder Jensen Hegelund 1542-1614 4 Hans Thomsen Stege 1628 5 Jens Lønberg 1653-1700

Age of Holberg

- Ludvig Holberg 1684-1754

Period of enlightenment

- Charlotte Dorothea Biehl 1731-1788 2 Johan Nordal Bruun 1745-1816 3 Ole Johan Samsoe 1759-1796 4 Enevold Falsen 1755-1825 5 Thomas Thaarup 1749-1821 6 Kristian Levin Sander 1738-1819 7 Olaf Kristian Olufsen 1764-1827 8 Peter Andreas Heiberg 1758-1841 9 Minor writers

Modern period


Danish and Norwegian fiction

83

Modern period


Danish and Norwegian essays

84

Period of enlightenment

- Rasmus Nyérup 1759-1820

Modern period


Danish and Norwegian satire and humor

87

Period of enlightenment

- Peder Magnus Troje 1743-1796 2 Peder Kofoed Troje 1754-1784 3 Thomas Kristoffer Bruun 1750-1834
Danish and Norwegian miscellany

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification, books are placed with their subjects, theology, history, etc.

Middle ages
1100-1500
1  Saxo (Longus) Grammaticus, History, -1208
2  Svend Aagesen, History

Reformation
1500-1560
1  Kristiern Pedersen (Father of Danish literature) 1480-1554
2  Povel Eliesen, Sermons, 1480-
3  Hans Mikkelsen, Bible translation, -1532
4  Peder Plade (Palladius) 1503-1560
5  Henrik Smith, Medicine, -1563

Learned period
1560-1700
History: Hans Svaning 1508-1584
Anders Sørensen Vedel 1542-1616
Peder Klausen 1545-1614
Arild Hvitfeld 1549-1609
Klaus Lyskander 1538-1623
Ole Worm 1588-1654
Peder Resen 1625-1688
Theology: Niels Hemmingsen 1513-1600
Holger Rosenkrantz 1574-1642
Jesper Brochmand 1585-1652
Science: Tyge Brahe, Astronomy, 1546-1597
Kaspar Bartholin, Medicine, 1585-1629
Thomas Bartholin, Anatomy, 1616-1680
Ole Borch, Medicine, 1626-1690
Niels Stensen, Anatomy, 1638-1686
Ole Rømer, Astronomy, 1644-1710

Age of Holberg
1700-1750
1  Erik Pontoppidan, History, 1698-1764
2  Jacob Langebek, History, 1710-1775
3  Frederik Kristian Bilschov, 1725-1750
4  Gerhard Schönig, History, 1722-1780
5  Peder Frederik Suhm, History, 1728-1798

Gothic
### French literature

840.1 Philosophy 2 Compends 3 Dictionaries 4 Essays, lectures, and addresses on French literature 5 Periodicals 6 Societies 7 Study and teaching 8 Collections 9 History

#### French poetry

| .1 | Dramatic |
| .03 | Romantic and epic |
| .04 | Lyric, ballads |
| .05 | Didactic |
| .06 | Descriptive |
| .07 | Satirical and humorous |
|.09 | History of French poetry |

#### Early French 842–1400

| .11 | Chanson de Roland *Chanson de geste* |
| .12 | Wace, Robert |
| .13 | Marie de France |
| .14 | Chrestien de Troyes |
| .15 | Queens de Bethune |
| .16 | Thibaut 4, comte de Champagne |
| .17 | Rutebeuf |
| .18 | Roman de la rose |

Guillaume de Loris, 1195–1260  Jean de Meung, 1280–1320

#### Transition period 1400–1500

| .21 | Chartier, Alain |
| .22 | Orléans, Charles duc d' |
| .23 | Coquillart, Guillaume |
| .24 | Baude, Henri |
| .25 | Villon, François |

#### Renaissance 1500–1600

| .31 | Daurat, Jean |
| .32 | Du Bellay, Joachim |
| .33 | Belleau, Remy |
| .34 | Ronsard, Pierre de |
| .35 | Thiard, Pontus de |
| .36 | Baïf, Jean Antonie de |
| .37 | Saluste du Bartas, Guillaume de |
| .38 | Desportes, Philippe |

#### Classic period 1600–1715

| .41 | Malherbe, François de |
| .42 | Maynard, François |
| .43 | Racan, Honorat de Bueil, marquis de |
| .44 | Chapelain, Jean |
| .45 | La Fontaine, Jean de |
| .46 | Deshouldièrès, Antoinette (du Ligier de la Garde), Madame |
| .47 | Chaulieu, Guillaume Amfrye de |

#### Minor poets

| .19 | |
| .29 | |
| .39 | |
| .49 | |
18th century 1715–89

Rousseau, Jean Baptiste 1670–1741
Racine, Louis 1692–1763
Pomppignan, Jean Jacques de Franc, marquis de 1709–84
Delille, Jacques 1738–1813
Roucher, Jean Antoine 1745–94
Chénier, André Marie de 1762–94
Parny, Evariste Désiré Desforges, vicomte de 1753–1814

Minor poets

Revolution and empire 1789–1815

Lebrun, Ponce Denis Écouchard 1729–1807
Fontanes, Louis, marquis de 1757–1821
Parseval Grandmaison, François Auguste 1739–1834
Luce de Lancival, Jean Charles Julien 1764–1810
Désaugiers, Marc Antoine Madeleine 1772–1827
Campenon, François Nicolas Vincent 1772–1843
Millevoye, Charles Hubert 1782–1816

Minor poets

Constitutional monarchy 1815–48

Béranger, Pierre Jean de 1780–1857
Delavigne, Jean François Casimir 1793–1843 See 842.72
Deschamps, Émile 1791–1871
Lamartine, Alphonse Marie Louis de Prat de 1792–1869
Reboul, Jean 1796–1864
Vigny, Alfred Victor, comte de 1799–1863 See 842.73
Musset, Louis Charles Alfred de 1810–57 See 842.76
Hugo, Victor Marie, comte 1802–85

See also 842.78 and 843.78

Minor poets

Later 19th century 1848–1900

Laprade, Pierre Marin Victor Richard de 1812–83
Dupont, Pierre 1821–70
Banville, Théodore Faillain de 1820–91
Sully-Prudhomme, René François Armand 1839–1907
Coppée, Francis Édouard Joachim 1842–1908 See 842.88
Derouillette, Paul 1846–

Minor poets

Early 20th century 1901–

French drama

Early French 842–1400

Mystères and miracles 1240–86
Adam de la Halle
Bodel, Jean

Minor dramatists
Transition period 1400-1500

- Gresban, Arnoul - 1493
- Michel, Jean - 1480-1544
- Gringoire, Pierre

Minor dramatists

Renaissance 1500-1600

- Le Coq, Thomas
- Baïf, Lazare de
- La Peruse, Jean Bastier de - 1530-55
- Jodelle, Étienne - 1532-73
- Grévin, Jacques - 1538-70
- La Taille, Jean de - 1540-1608
- Garnier, Robert - 1545-1601
- Larivey, Pierre de - 1550-1612

Renaissance 1500-1600 (continued)

Classic period 1600-1715

- Corneille, Pierre - 1606-84
- Molière, Jean Baptiste Poquelin, called - 1622-73
- Corneille, Thomas - 1625-1709
- Boursault, Edme - 1638-1701
- Racine, Jean - 1639-99
- Brueys, David Augustin de - 1640-1723
- Dufresny, Charles Rivière - 1648-1724
- Baron, Michel Boyron, called - 1653-1729

Classic period 1600-1715 (continued)

18th century 1715-89

- La Motte, Antoine Houdart de - 1672-1731
- Crébillon, Prosper Jolyot de - 1674-1762
- Destouches, Philippe Néricault - 1680-1754
- Marivaux, Pierre Carlet de Chamblain de - 1688-1763 See 843.52
- Piron, Alexis - 1689-1773
- Voltaire, François Marie Arouet de - 1694-1778 See 843.54
- Sédaïne, Michel Jean - 1719-97
- Beaumarchais, Pierre Augustin Caron de - 1732-99

18th century 1715-89 (continued)

Revolution and empire 1789-1815

- Ducis, Jean François - 1733-1816
- Collin-Harleville, Jean François - 1735-1806
- La Harpe, Jean François de - 1739-1803 See 844.61
- Fabre d’Églantine, Philippe François Nazaire - 1755-94
- Andrieux, François Guillaume Jean Stanislas - 1759-1833
- Chenier, Marie Joseph - 1764-1811
- Picard, Louis Benoît - 1769-1828
- Lemercier, Louis Jean Népomucène - 1771-1840

Revolution and empire 1789-1815 (continued)

Minor dramatists
Constitutional monarchy 1815–48

Soumet, Alexandre 1788–1845
Delavigne, Jean François Casimir 1793–1843 See 841.72
Scribe, Augustin Eugène 1791–1861
Ancelot, Jacques Arsène François Polycarpe 1794–1864
Vigny, Alfred Victor, comte de 1799–1863 See 841.76
Muset, Louis Charles Alfred de 1810–57 See 841.77
Dumas, Alexandre, the elder 1806–70 See 843.76
Hugo, Victor Marie, comte 1802–85 See also 841.78 and 843.78

Minor dramatists

Later 19th century 1848–1900

Labiche, Eugène Marin 1815–88
Ponsard, François 1824–67
Augier, Guillaume Victor Émile 1822–89
Dumas, Alexandre, fils 1824–95
Bornier, Henri de 1825–1901
Sardou, Victorien 1831–1908
Pailleron, Édouard 1834–99
Coppée, Francis Édouard Joachim 1842–1903 See 841.85

Minor dramatists

Early 20th century 1901–

French fiction

Transition period 1400–1500

Christine de Pisan 1363–1431
Jean de Tuin 1398–1462
La Sale, Antoine de 1403–75

Minor writers

Renaissance 1500–1600

Marguerite de Navarre 1492–1549
Desperriers, Bonaventure 1500–44
Herberay, Nicolas d’ 1526–1606
Du Fail, Noël 1558–1612
Bouchet, Guillaume 1536–1606
Beroalde de Verville, François 1558–1612

Minor writers

Classic period 1600–1715

Urâté, Honoré d’ 1568–1625
Gomberville, Marin Le Roy de 1600–47
La Calprenède, Gauthier de Costes de 1602–63
Scudéry, Georges de 1601–67
Scudéry, Madeleine de 1607–1701
Cyrano de Bergerac, Savinien 1620–55
Perrault, Charles 1628–1703
Lafayette, Marie Madeleine Pioche de la Vergne, comtesse de 1634–93

Minor writers
Le Sage, Alain René 1668–1747
Marivaux, Pierre Carlet de Chamblain de 1688–1763 See 842.54
Prévoit d'Exiles, Antoine François 1697–1763
Voltaire, François Marie Arouet de 1694–1778 See 842.55
Crétillon, Claude Prosper Jolyot de, fils 1707–77
Rousseau, Jean Jacques 1712–78
Restif de la Bretonne, Nicolas Edme 1734–1806
Florian, Jean Pierre Claris de 1755–94
Minor writers

Revolution and empire 1789–1815
St Pierre, Jacques Henri Bernardin de 1737–1814
Stael Holstein, Anne Louise Germaine (Necker), baronne de 1766–1817
Constant de Rebeccque, Henri Benjamin 1767–1830
Maistre, Xavier de 1763–1852
Chateaubriand, François Auguste René, vicomte de 1768–1848

Minor writers

Constitutional monarchy 1815–48
Beyle, Marie Henri [de Stendhal] 1783–1842
Nodier, Charles 1790–1844
Balzac, Honoré de 1799–1850
Sue, Marie Joseph, called Eugène 1804–57
Souvestre, Émile 1806–54
Dumas, Alexandre, the elder 1806–70 See 842.77
Gautier, Théophile 1811–72
Hugo, Victor Marie, comte 1802–85
See also 841.78 and 842.78

Minor writers

Later 19th century 1848–1900
Mérimée, Prosper 1803–70
Dudevant, Amantine Lucile Aurore Dupin [George Sand] 1804–76
Feuillet, Octave 1822–90
Flaubert, Gustave 1821–81
Erckmann-Chatrian {Erckmann, Émile 1822–99
Chatrian, Alexandre 1826–90
About, Edmond François Valentin 1828–85
Cherbuliez, Victor 1829–99
Daudet, Alphonse 1840–97
Minor writers

Early 20th century 1901–
844.5 18th century 1715-89
.51 Fontenelle, Bernard le Bovier de 1657-1757
.52 Montesquieu, Charles le Secondat, baron de 1689-1755
.53 Alembert, Jean le Rond d' 1717-83
.6 Revolution and empire 1789-1815
.61 La Harpe, Jean François de 1739-1803 See 842.63
.62 Joubert, Joseph 1754-1824
.63 Courrier de Mérè, Paul Louis 1772-1825
.64 Senancour, Étienne Pivert de 1770-1846
.7 Constitutional monarchy 1815-48
.71 La Mennais, Hugues Félicité Robert de 1782-1854
.72 Villermain, Abel François 1790-1870
.73 Planche, Jean Baptiste Gustave 1808-57
.74 Sainte Beuve, Charles Augustin 1804-69
.75 Saint-Marc Girardin 1801-73
.76 Janin, Jules Gabriel 1804-74
.77 Nisor, Jean Marie Napoléon Désiré 1806-88
.8 Later 19th century 1848-1900
.81 Quinet, Edgar 1803-75
.82 Renan, Ernest 1823-92
.83 Taine, Hippolyte Adolphe 1828-93
.91 Early 20th century 1901-

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846 French letters Subdivided by periods like 841
847 French satire and humor
.1 Early French 842-1400
.11 Guyot de Provens
.12 Roman du Renard See 837.31 and 839.371
.13 Deschamps, Eustache 1320-1400
.3 Renaissance 1500-1600
.31 Marot, Clément 1495-1544
.32 Rabelais, François 1495-1553
.33 La Satyre Minippée 1594
.34 Aubigné, Théodore Agrippa d' 1550-1630
.35 Regnier, Mathurin 1573-1613
.4 Classic period 1600-1715
.41 Viau, Théophile de 1590-1626
.42 Saint Amant, Marc Antoine Gérard 1594-1661
.43 Scarron, Paul 1610-60
.44 Benserade, Isaac de 1612-91
.45 Puesrière, Antoine 1620-88
.46 Boileau Despréaux, Nicolas 1636-1711
.47 Regnard, Jean François 1655-1709
.5 18th century 1715-89
.51 Gresset, Jean Baptiste Louis 1709-77
.52 Gilbert, Nicolas Joseph Laurent 1751-80
.7 Constitutional monarchy 1815-48
.71 Barthélemy, August Marseille 1796-1867
.72 Barbier, Henri Auguste 1805-82

848 French miscellany Subdivided by periods like 841
849  Provençal literature

.1  Provençal poetry

.11  1st period  900–1100
   Poetry in hands of clergy. No folk poetry preserved. Form mainly epic.
   Language not yet fixed. Country under rule of counts, nominally subject to
   emperor, really independent till 1486, then reunited to France

.111  Epic poetry
       Boethius

.112  Lyric poetry

.119  Minor poetry  Didactic

.12  Golden age  1100–1300
   Poets mainly knights, but after 1250 almost exclusively burghers. Lyric most
   important

.121  Romances of chivalry
       Girart de Roussillon

.122  Historical poetry
       Croisade contre les Albigeois

.123  Romans d’aventures
       Plamenc

.124  Lyric poetry

.125  Bernart de Ventadorn flourished about 1140–95

.126  Born, Bertran de

.127  Arnaut, Daniel

.128  Bornell, Giraut de

.129  Minor poetry
   Nearly 500 poets named beside anonymous poems. Form prevails over
   content; great variety of poetic forms. These lyric poets are the real
   Troubadours

.13  Aftermath  1300–1500
   Downfall of language and literature owing to lack of content and
   politics and social causes, specially the crusade against the Albigeois

.131  Poets of school of Toulouse
   Arnaut Vidal, first recipient of the Golden Violet, 1324. Poetry artificial, a
   craft. La Leys d’Amors is the code of poetic laws, by Guille Moulier,
   chancellor of ‘Consistory de la g*ya sciens’ establisht at Toulouse 1324,
   First prize a golden violet. When in danger of perishing, consistory revived
   in 1484 and poetic exercises styled ‘Jeux floraux’

.132  La Noble Leycezon
       Religious poetry of Waldenses

.139  Minor poetry

.14  Decadence  1500–
   Provençal sinks to position of a dialect despite fitful attempts to revive it, the
   most recent, that connected with publication of Li Provençalo 1852

.141  Goudouli, Pierre de
       1579–1649

.142  Despouinns, Cyprien
       1698–1755

.143  Jasmin, Jacques
       1758–1864

.144  Roumanille, Joseph
       1818–91

.145  Aubanel, Jos. Marie J. Baptiste Théodore
       1829–86

.146  Mistral, Frédéric
       1830–

.149  Minor poetry
Catalan literature

Catalan poetry

1st period 1200-1250
Catalonia before 1137 ruled by French counts, then united to Aragon. Language is closely allied to Provençal, in which first poets wrote. Mss scattered; few as yet printed. Literature begins with James I (1213-76) who made Catalan the state language
For Ramon Muntaner see 849.9813
1 Raimon Lull 1225-1315 2 Febler 1250 9 Minor poets

3d period 1350-1450
Imitation of Neo Provençal, French and Italian, specially of Dante, Petrarch and Boccaccio. Some flashes of originality. Pra Rocaberti. Imitation of Dante

Age of perfection 1450-
From 16th century, Catalan literature merged in Spanish, tho some writers still employ idiom, e. g. 'Balaguer'
1 March, Ausias (1460, greatest of Catalan poets) 2 Fenolla, Bernard
3 Jacme Roig (satiric) 4 Farrer 5 Seraf 6 Pujol 7 Garcia
9 Minor poets

Catalan fiction

Age of perfection 1450-
Joanet Martorel -1400. Tirant lo Blanch, a chivalric romance

Miscellany

1st period 1200-1350
Prose superior to poetry. Chronicles of great importance, culminating in Muntaner
1 James I (The Conqueror) 1213-76 2 Desclot, Bernardo 3 Muntaner, Ramon 1265-1340 4 Ximenes 9 Minor authors

2d period 1350-1450
Prose resists foreign influences better than poetry. Many philosofic and theologic writings beside historical works
1 Tomich 2 Turell 9 Minor writers
# Italian literature

**850.1** Philosophy .2 Compends .3 Dictionaries .4 Essays, lectures and addresses on Italian literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

## 851 Italian poetry

- .02 Dramatic .03 Romantic and epic .04 Lyric, ballad .05 Didactic .06 Descriptive .07 Satiric and humorous .09 History of Italian poetry

### 1 Early Italian: Age of Dante 1375

To death of Boccaccio, 1375

- .11 Protonotario, Stefano —1250
- .12 Arezzo, Guittone d’ —1294
- .13 Guincelli, Guido —1276
- .14 Cavalcanti, Guido 1260–1300
- .15 Alighieri, Dante 1265–1321
- .16 Pisotia, Cino da 1270–1336
- .17 Uberti, Fazio degli —1369
- .18 Petrarca, Francesco 1304–74
- .19 Minor poets

### 2 Period of classic learning 1375–1492

From death of Boccaccio, 1375, to death of Lorenzo il Magnifico, 1492

- .21 Frezzi, Federigo —1416
- .22 Bojardo, Matteo 1430–94
- .23 Medici, Lorenzo dei (Il Magnifico) 1448–92
- .24 Poliziano, Angelo 1454–94
- .25 Benivieni, Girolamo 1453–1542 See 852.22
- .26 Sannazzaro, Jacopo 1458–1530
- .29 Minor poets

### 3 Age of Leo the Tenth 1492–1542

From death of Lorenzo il Magnifico, 1492, to convocation of council of Trent, 1542

- .31 Bembo, Pietro 1470–1547
- .32 Ariosto, Lodovico 1474–1533
- .33 Rucellai, Giovanni 1475–1526
- .34 Molza, Francesco 1483–1544 See 853.33
- .35 Tasso, Bernardo 1493–1569
- .36 Alamanni, Luigi 1495–1556
- .37 Guidicciioni, Giovanni 1500–41
- .38 Casa, Giovanni della 1503–56
- .39 Minor poets

### 4 Later 16th century 1542–85

From convocation of council of Trent, 1542, to pontificate of Sixtus 5, 1585

- .41 Costanzo, Angelo di 1507–91
- .42 Rota, Bernardino 1507–75
- .43 Tansillo, Luigi 1510–68
- .44 Magni, Cello 1536–1602
- .45 Guarini, Giovambattista 1537–1612
- .46 Tasso, Torquato 1544–95
- .47 Baldi, Bernardino 1553–1617
- .49 Minor poets
851.5  Period of decline  1585-1748
       From pontificate of Sixtus 5, 1585-90, to peace of Aix-la-Chapelle, 1748
     51  Chiabrera, Gabriello  1552-1637
     52  Marini, Giovambattista  1569-1625
     53  Testi, Fulvio  1593-1646
     54  Filicaja, Vincenzo  1642-1707
     55  Guidi, Alessandro  1650-1712
     56  Manfredi, Eustachio  1674-1738
     57  Frugoni, Carlo Innocenzo  1692-1768
     58  Algarotti, Francesco  1712-64
     59  Minor poets

.6  Period of renovation  1748-1814
       From peace of Aix-la-Chapelle, 1748, to congress of Vienna, 1814
     61  Paradisi, Agostino  1736-83
     62  Mascheroni, Lorenzo  1750-1800
     63  Pindemonte, Ippolito  1753-1828
     64  Monti, Vincenzo  1754-1828
     65  Cassi, Francesco  1778-1846
     66  Foscolo, Ugo  1779-1827
     67  Arici, Cesare  1782-1836
     68  Sestini, Bartolommeo  1792-1822
     69  Minor poets

.7  Early 19th century  1814-59
       From congress of Vienna, 1814, to war of Independence, 1859
     71  Berchet, Giovanni  1783-1851
     72  Rossetti, Gabriele  1783-1854
     73  Manzoni, Alessandro  1785-1873 See 853.72
     74  Marchetti, Giovanni  1790-1852
     75  Leopardi, Giacomo  1798-1837
     76  Carrer, Luigi  1801-50
     77  Regaldi, Giuseppe  1809-83
     78  Prati, Giovanni  1815-84
     79  Minor poets

.8  Later 19th century  1859-1900
       From war of Independence, 1859, to 1900
     81  Aleardi, Aleardo  1810-78
     82  Zanella, Giacomo  1820-88
     83  Gnoli, Domenico  1839-
     84  Carducci, Giosuè  1835-1907
     85  Fogazzaro, Antonio  1842-1911
     86  Rapisardi, Mario  1844-
     87  Guerrini, Olinde  1845-
     88  Minor poets

.91  Early 20th century  1901—
Italian drama

1 Early Italian Age of Dante 1375
2 Period of classic learning 1375-1492
 21 Belcaro, Feo 1410-84
 22 Poliziano, Angelo 1454-94 See 851.24
 29 Minor dramatists
3 Age of Leo the Tenth 1492-1542
 31 Machiavelli, Niccolò 1469-1527 See also 854.31
 32 Dovizi, Bernardo (Cardinal Bibbiena) 1470-1520
 33 Trissino, Gian Giorgio 1478-1550
 34 Aretino, Pietro 1492-1556
 35 Ambra, Francesco d' -1558
 39 Minor dramatists
4 Later 16th century 1542-85
 41 Speroni, Sperone 1500-88
 42 Giraldi, G. B. Cinzio 1504-73 See also 853.44
 43 Cecchi, Giovanni Maria 1517-87
 44 Asinari, Federigo 1527-76
 45 Porta, Giovambattista della 1538-1615
 49 Minor dramatists
5 Period of decline 1585-1748
 51 Buonarroti, Michelangiolo jr 1564-1646
 52 Rinuccini, Ottavio 1565-1622
 53 Andreini, Giovambattista 1578-1650
 54 Gigli, Girolamo 1600-1722
 55 Zeno, Apostolo 1669-1750
 56 Maffei, Scipione 1675-1735
 57 Trapassi, Pietro (Metastasio) 1698-1782
 59 Minor dramatists
6 Period of renovation 1748-1814
   For Manzoni, see 851.73 and 853.72
 61 Goldoni, Carlo 1707-73
 62 Gozzi, Carlo 1722-1806
 63 Capacelli Albergati, Francesco 1728-1804
 64 Alfieri, Vittorio 1749-1803
 65 Nota, Alberto 1775-1847
 66 Biondi, Luigi 1776-1839
 67 Benedetti, Francesco 1785-1821
 69 Minor dramatists
7 Early 19th century 1814-59
 71 Niccolini, Giovambattista 1782-1861
 72 Pellico, Silvio 1788-1854
 73 Giacometti, Paolo 1816-81
 74 Gherardi del Testa, Tommaso 1818-82
 75 Ferrari, Paolo 1822-89
 79 Minor dramatists
8 Later 19th century 1859-1900
 81 Bersezio, Vittorio 1830-1900
 82 Cossa, Pietro 1833-82
 83 Carrera, Valentino 1834-95
 84 Marengo, Leopoldo 1831-99
 85 Cavallotti, Felice 1842-98
 86 Torelli, Achille 1844-
 87
 88
 89 Minor dramatists
91 Early 20th century 1901-
## Italian fiction

### Early Italian Age of Dante 1375
- Barberino, Francesco da
- Pisa, Guido da
- Gubbio, Bosone da
- Boccaccio, Giovanni

### Period of classic learning 1375-1492
- Sacchetti, Franco
- Fiorentino, Ser Giovanni
- Manetti, Antonio
- Mangabotti, Andrea dei
- Prato, Giovanni da

### Age of Leo the Tenth 1492–1542
- Salernitano, Masuccio
- Bandello, Matteo
- Molza, Francesco
- Firenzuola, Agnolo

### Later 16th century 1542–85
- Grazzini, Antonfrancesco (Lasca)
- Doni, Antonfrancesco
- Erizzo, Sebastiano
- Giraldi, G. B. Cinzio
- Parabosco, Girolamo

### Period of decline 1585–1748

### Early 19th century 1814–59
- Rosini, Giovanni
- Manzoni, Alessandro
- Grossi, Tommaso
- Guerrazzi, Francesco Domenico
- Bresciani, Antonio
- Cantù, Cesare
- Carcano, Giulio
- Azeglio, Massimo d'

### Later 19th century 1859–1900
- Castellazzo, Luigi
- Barrili, Anton Giulio
- Capuana, Luigi
- Verga, Giovanni
- Faldella, Giovanni
- Farina, Salvatore
- Giovagnoli, Raffaele
- Serao, Matilde

### Early 20th century 1901–
Italian essays

.1 Early Italian Age of Dante 1375
   Cavalcà, Fra Domenico 1342
   Passavanti, Fra Jacopo 1357

.2 Period of classic learning 1375-1492
   Alberti, Leone Battista 1404-72
   Palmieri, Matteo 1405-75
   Bistucci, Vespasiano da 1421-98
   Collenuccio, Pandolfo 1504
   Vinci, Leonardo da 1482-1519
   Minor essayists

.3 Age of Leo the Tenth 1492-1542
   Machiavelli, Niccolò 1469-1527
   Nardi, Jacopo 1476-1555
   Castiglione, Baldassare 1478-1529
   Guicciardini, Francesco 1482-1540
   Giannotti, Donato 1494-1573
   Giambullari, Pier Francesco 1495-1555
   Gelli, Giovambattista 1498-1563
   Varchi, Benedetto 1503-66
   Minor essayists

.4 Later 16th century 1542-85
   Castelvetro, Ludovico 1505-71
   Piccolomini, Alessandro 1508-78
   Borghini, Vincenzo 1515-80
   Davanzati, Bernardo 1529-1606
   Salviati, Leonardo 1540-89
   Ammirato, Scipione 1531-1601
   Paruta, Paolo 1540-98
   Botero, Giovanni 1540-1617
   Minor essayists

.5 Period of decline 1585-1748
   Sarpi, Paolo 1550-1623
   Galilei, Galileo 1564-1642
   Bartoli, Daniele 1608-85
   Dati, Carlo 1619-73
   Gravina, Giovanni Vincenzo 1664-1718
   Muratori, Ludovico Antonio 1672-1750
   Giannone, Pietro 1676-1748
   Zanotti, Francesco Maria 1692-1777
   Minor essayists

.6 Period of renovation 1748-1814
   Bettinelli, Saverio 1718-1808
   Denina, Carlo 1730-1813
   Tiraboschi, Girolamo 1731-94
   Lanzi, Luigi 1732-1810
   Beccaria, Cesare 1735-93
   Filangeri, Gaetano 1752-88
   Cesari, Antonio 1760-1828
   Perticari, Giulio 1779-1822
   Minor essayists

See also 852.31
Early 19th century 1814-59
- Costa, Paolo 1771-1836
- Giordani, Pietro 1774-1848
- Troya, Carlo 1785-1859
- Balbo, Cesare 1789-1853
- Capponi, Gino 1792-1878
- Mamiani della Rovere, Terenzo 1800-85
- Gioberti, Vincenzo 1801-53
- Tommaséo, Niccolò 1802-74
- Minor essayists

Later 19th century 1859-1900
- Sanctis, Francesco de 1818-83
- Bonghi, Ruggiero 1827-95
- Conti, Augusto 1822-1905
- Villari, Pasquale 1827-
- Ardigò, Roberto 1828-
- Comparetti, Domenico 1835-
- Zumbini, Bonaventura 1840-
- Panzacchi, Enrico 1841-1904
- Minor essayists

Early 20th century 1901-

Italian oratory

Italian letters

Italian satire and humor

Early Italian Age of Dante 1375
- Gemignano, Folgore da San
- Chitarra, Cene dalla
- Angiulieri, Cecco
- Pucci, Antonio 1377
- Minor writers

Period of classic learning 1375-1492
- Burchiello, Domenico 1395-1448
- Pulci, Luigi 1432-84
- Vinciguerra, Antonio 1496-1535
- Minor writers

Age of Leo the Tenth 1492-1542
- Folengo, Teofilo (Merlin Cocai) 1491-1544
- Berni, Francesco 1496-1535
- Minor writers

Later 16th century 1542-85
- Nelli, Pietro 1509-53
- Beccuti, Francesco 1531-1601
- Caporali, Cesare 1566-1645
- Minor writers

Period of decline 1585-1748
- Tassoni, Alessandro 1565-1635
- Bracciolini, Francesco 1566-1645
- Lalli, Giovambattista 1572-1637
- Lippi, Lorenzo 1606-64
- Rosa, Salvatore 1615-73
- Menzini, Benedetto 1646-1704
- Sergardi, Ludovico 1660-1726
- Fortiguerr, Niccolò 1674-1735
- Minor writers
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858 Italian miscellany

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859 Wallachian literature

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9 Rumansh literature

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Spanish poetry

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1 Early Spanish - 1369
In 711 the Visigothic kingdom, founded in the 5th century, was overthrown by Arabs: 711-1492 Arabic period or Age of reconquest. Literature began in first half of 12th century. Earliest poetry, epic; subjects national, themes war and religion. These were followed by an erudite tendency toward classic tradition neglecting national themes. However, this was revived toward the close of the period by continued victories over Moors under Alfonso 11th, 1312-50, thereafter reaction again toward didactic. Under Alfonso the Wise, 1252-84, a general intellectual awakening, but leading to greater results in prose than in poetry. Through his (i) Provençal (and Galician) and (2) Oriental influences were introduced. In Provençal literature chief attention was given to perfection of poetic form. The Oriental was didactic in content, symbolic in form.

Primitiv monuments

Poema de mio Cid

BerCEO, Gonzalo de
Segura de Astorga, Juan Lorenzo
Yañez Ruy (Cronica del Rey Alfonso Onceno)
Sem Tob, Rabí

Minor poets

Age of imitation 1369-1516
Henry 2d to Carlos 1st, Charles 5th of Germany. 1479, Union of Castile and Aragon. Under Ferdinand and Isabella all Spain was brought under one scepter. Provençal and didactic tendencies continue; a third element was Italian influence. There were 3 distinct schools:

1 Provençal, specially influential at court
2 Italian (Dante) or Allegoric, introduced by Francisco Imperial, a Genoese. (Mena, 861.22)
3 Didactic. A protest against the Italian school in behalf of national literary traditions. (Ayala, 861.21)

Lopez de Ayala, Pedro
Mena, Juan de
Mendoza, Inígo Lopez de, Marqués de Santillana
Manrique, Jorge
Los Cancioneros
Los Romances

Romancero del Cid

" romances " popular poetry, peculiar to Spain, and generally anonymous; period of production, from earliest times to 18th century. Golden Age during reign of Ferdinand and Isabella, a grand reawakening coming with the fall of Granada, 1492

Minor poets
Golden age 1516–1700

Rule of House of Austria. Painting culminates in this period: Morales 1509–36; Coello 1515–90; Joanes 1523–79; The Herrera — 16th century; Ribera 1588–1656; Zurbarán 1598–1662; Velázquez 1599–1660; Cano 1601–1667; Murillo 1618–1682, etc.

Fierce opposition to the Reformation intensified religious sentiment and produced a school of mystics. The sentiment of nationality became a dream of universal monarchy. The chivalric cult of woman was replaced by an exaggerated conception of female honor, the least suspicion of frailty being visited with death.

Great number of poets. Nothing notable in epic; lyric very prominent; at first Italian influences more intensified, Petrarch the model. This movement, begun by Juan Boscan 1500(?)–1543, culminated in Garcilaso (861.37). The protest against this in favor of national traditions is best represented by CastiUejo (861.32). Mendoza (861.36) represents a conciliation. A fusion of 2 schools follows in which the Italian wins the major influence. Thereafter appear 2 new schools:

1 Classic, opposed to the fusion and represented by Leon (861.33) and the Argensolas (861.34) and

2 Sicilian or Oriental (inspired specially by the Bible) of which Herrera (861.35) is standard bearer. First manifestations of 'bad taste' appear (founder of school, Alonso de Ledesma 1532–1623) represented by Gongora (861.37) which despite opposition (Ríoja 861.38) produces rapid decadence. 'Bad taste' consisted in artificialities, exaggerations, obscurities, etc.

-31 Vega, Garcilaso de la 1503–36
-32 CastiUejo, Cristóbal de 1494–1596
-33 Leon, Luis Ponce de 1528–91

Leon is equally important in prose

-34 Los Argensolas: Lupercio 1563–1613
-35 Bartolomé Leonardo 1564–1631
-36 Herrera, Fernando de 1534–97
-37 Mendoza, Diego Hurtado de 1503–75
-38 Góngora y Argote, Luis de 1561–1627
-39 Ríoja, Francisco de 1600–59

Minor poets

18th century 1700–1800

At death of Carlos 2d (1700) war of succession resulted in firm establishment of house of Bourbon, which, with brief interruptions, has continued to rule. Spanish political importance lost. At opening of century complete decadence, 'bad taste' everywhere dominant. Attempts made to regenerate Spanish letters according to principles of French classicism. Little advance, however, till close of century, despite foundation of academies (Spanish academy, 1714) and doctrinal reform in French sense, proclaimed by Lusán (1709–54) in La poética, etc.

Thereafter a kind of revival. 3 schools formed:

1 Classic French. Moratin the elder (861.41); Cadalso (861.42); Yriarte (861.45) and Samaniego (861.44)

2 Antique national, protesting against introduction of French taste. Huerta (861.43)

3 Salamanca school, an attempt to reconcile the first 2, avoiding their extravagances and conserving what was good in each. Valdés (861.46); Iglesias (861.47); Cienfuegos (861.48); Moratin the younger (861.42) and Jovellanos (861.42). 'Prosaism' production of exaggerated opposition to Gongorism or 'bad taste' also characterizes period. Influence of French encyclopedism also manifest. Development of science checked by religious (Inquisition) and political despotism Rich development of fables and apologos in verse. Samaniego (861.44) and Yriarte (861.45). In epic, complete poverty

-41 Moratin (the Elder), Nicolás Fernandez de 1737–80
-42 Cadalso, José de 1741–82
-43 Huerta, Vicente Antonio García de la 1734–87
-44 Samaniego, Félix María de 1745–1801
-45 Yriarte, Tomás de 1759–91
-46 Valdés, Juan Melendez 1754–1517
-47 Iglesias de la Casa, José 1748–91
-48 Cienfuegos, Nicasio Alvarez de 1764–1809
-49 Minor poets
19th century 1800–1900
Abdication of Carlos 4th, 1808; Joseph 1st (Bonaparte) 1808–13. Ferdinand 7th
restored. Salic law abrogated, opening succession to daughter Isabella. Carlist
insurrections (upholding Salic law) quelled. Isabella driven from throne by
revolution 1868; 1870–73 Amadeo (Savoy house), 1873, Amadeo abdicates and
republic proclaimed; monarchy restored with Alfonso 12th in 1875.

Age, till close of Ferdinand’s reign, very unfavorable to letters. Under Carlos 4th
(1788–1808) despotism reintroduced and revolution followed. Policy of Ferdinand
7th, after restoration (1813–33), retrograde. An interregnum in letters. First
real awakening with Espronceda (861.52). Same fluctuations as in previous
period. Romantic school introduced by Zorrilla (861.53).

.51 Quintana, Manuel José 1772–1837
.52 Espronceda, José de 1810–42
.53 Zorrilla y Moral, José 1817–90
.54 Gutierrez, Antonio García 1812–84
.55 Gil y Zárate, Antonio 1792–1861
.56 Hartzembusch, Juan Eugenio 1806–80
.59 Minor poets

Early 20th century 1901–

Spanish drama

.2 Age of imitation 1369–1516
Evidences of existence of ‘mysteries’ but no remains

.21 Enzina, Juan del (?)1468–1534
.22 Vicente, Gil (?)1450–1536

.3 Golden age 1516–1700
Drama of this period is chief glory of Spanish letters; writers show a phenomenal
fecundity (at 70 ‘Lope’ had written 1500 dramas), 30,000 dramas composed by
beginning of 18th century. At opening of period Church tried to check develop-
ment of profane drama, placing nearly all in the Index. Torres Naharro (works
pub. 1517) and Lope de Rueda (d. 1597) form transition from preceding period.
Later, reputed father of national theater. Lope de Vega (862.31) real founder.
Drama culminates in Calderon (862.39); thereafter decadence

.31 Vega Carpio, Lope Félix de 1562–1635
.32 Castro y Belvis, Guillem de 1567–1621
.33 Tellez, Gabriel (Tirso de Molina, pseud.) (?)1570–1648
.34 Alarcon y Mendoza, Juan Ruiz de (?)1580–1639
.35 Calderon de la Barca, Pedro 1600–81
.36 Rojas y Zorrilla, Francisco de 1607–
.37 Moreto y Cabaña, Agustín 1618–69
.39 Minor dramatists

18th century 1700–1800
Complete decadence of drama in last years of old monarchy. Revival in 18th
century, following French classic drama. Culminates in Moratin the younger,
(862.42). Opposition of National school voiced in Huerta (861.43). Discussions
provoke abundant productions, fecundity rather than merit characterizing mass
of writers, Comella (862.41) — Period of unrest; old ideas can not be reestabUsh,t,
new can not be naturalized

For Moratin the elder, see 861.41 and Huerta, 861.43

.41 Comella, Luciano Francisco 1716–79
.42 Moratin, Leandro Fernandez de 1760–1828
.43 Cruz, Ramon de la (Light comedies) 1731–95
.49 Minor dramatists

.5 19th century 1800–1900
Zorrilla (861.53), Gutierrez (861.54), and Rubí (862.52) represent ‘romantic’
movement in Spanish drama. For Gil y Zárate, see 861.55; Hartzembusch,
861.56

.51 Martinez de la Rosa, Francisco 1789–1862
.52 Rodriguez Rubí, Tomás 1817–90
.53 Breton de los Herreros, Manuel 1796–1873
.59 Minor dramatists

.6 Early 20th century 1901–
Spanish fiction

Age of imitation 1369-1516
Immense vogue of books of chivalry despite legislation till publication of Don Quijote; thereafter only one written. [First part of Quijote printed 1605]

Books of chivalry

Amadis de Gaula

Golden age 1516-1700
Real novel replaces old books of chivalry about 1500. 'Picaresca,' or 'rogue' novel characteristic of this period; a result of the state of society following wars of Charles 1st and Philip 2d, e. g. Mendoza's Lazarillo de Tormes. For Mendoza, see 861.36

Montemayor, Jorge de 1520-61
Cervantes Saavedra, Miguel de 1547-1616
Minor novelists

18th century 1700-1800

19th century 1800-1900
For Breton de los Herreros, see 862.53; and Rodriguez Rubé, 862.52
Larra, Mariano José de [Figaro] 1809-37
Mesonero y Romanos, Ramón de 1803-82
Arrom, Cecilia Boehl de [Fernan Caballero] 1797-77
Minor writers

Early 20th century 1901-

Spanish essays

Spanish oratory

Hardly any forensic and little sacred eloquence. When language and culture advanced, privileges of Cortes restrained. Sacred eloquence less employed by Spanish church than by French or English. Gongorism or 'bad taste' conquers here as elsewhere

Early Spanish 1369

Age of imitation 1369-1516

Golden age 1516-1700
For Luis de Leon, see 861.33; and Luis de Granada, 868.32

18th century 1700-1800
For Jovellanos, see 868.42; and Valdés, 861.46

19th century 1800-1900
Olozaga, Salustiano de 1803-73
Castelar, Emilio 1832-99

Early 20th century 1901-

Spanish letters

Golden age 1516-1700
Naturalness of old times changed with majestic court and rigid etiquet of Charles 5th. For Santa Teresa, see 868.33

Avila, Juan de 1502-69
Perez, Antonio 1540-1611
Minor writers
867 Spanish satire

.1 Early Spanish 1369
  Ruiz, Juan (Arcipreste de Hita) 1350

.2 Age of imitation 1369-1516
  Coplas de Mingo Revulgo

.3 Golden age 1516-1700
  Quevedo Villegas, Francisco Gomez de 1580-1645

.4 18th century 1700-1800
  For Cadalso, see 861.42; and Moratin the younger, 862.42
  Jorge Pitillas (a pseudonym)
  Isla, José Francisco de (el Padre) 1703-81

868 Spanish miscellany

.1 Early Spanish 1369

.11 Alfonso 10, el Sábio 1221-84

.12 Sancho el Bravo (4th of Castile) 1258-95

.13 Manuel, Juan 1282-1347

.14 Alfonso II 1310-50

.19 Minor writers

.2 Age of imitation 1369-1516
  General and special histories, books of travel, works called forth by Boccaccio's
    Corvaccio, etc.

.3 Golden age 1516-1700
  Didactic prose. Considerable development, tho less than poetry, owing in great
    measure to political and religious restraints. 'Bad taste' manifests itself here as
    elsewhere. Luis de Granada, Santa Teresa, San Juan de la Cruz, Pedro de Riva-
    deneyra and Luis de Leon, representatives of Mystic school
  For Luis de Leon, see 861.33; and Quevedo y Villegas, 867.3

.31 Mariana, Juan de, founder of Spanish history 1536-1623

.32 Granada, Luis de 1504-88

.33 Teresa de Jesús, Santa 1513-82

.34 Cruz, San Juan de la 1542-91

.35 Rivadeneyra, Pedro de 1527-1611

.36 Saavedra Fajardo, Diego de 1584-1648

.39 Minor writers

.4 18th century 1700-1800
  Under Carlos 3d (1759-88) scientific studies took a fresh start, due largely to
    Feijóo who attempted intellectual emancipation of Spain. Prose advances under
    French influence, Gallicisms introduced

.41 Feijóo y Montenegro, Benito Jerónimo 1676-1764

.42 Jovellanos, Gaspar Melchor de 1744-1811

.49 Minor writers

.5 19th century 1800-1900
  For Hartsembsuch, J E, see 861.36

.51 Gayangos, Pascual de 1809-97

.52 Rios, José Amador de los 1818-78

.53 Milá y Fontanals, Manuel, 1818-84

.59 Minor writers

.6 Early 20th century 1901-

869 Portuguese literature

.1 Poetry
.2 Drama
.3 Fiction
.4 Essays
.5 Oratory
.6 Letters
.7 Satire and humor
.8 Miscellany
870 Latin literature

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.5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History
of Latin literature

871 Latin poetry in general
See Dramatic, Epic and Lyric below

.1 Lucretius Carus, Titus
.2 Ovid (Publius Ovidius Naso)
.3 Hyginus, Caius Julius
.4 Faliscus, Gratius
.5 Manilius, Marcus
.6 Phaedrus
.7 Lucilius Junior Ætna

872 Latin drama

.1 Andronicus, Livius
.2 Naevius, Cnæus
.3 Plautus, Titus Maccius
.4 Ennius
.5 Terence (Publius Terentius Afer)
.6 Seneca, Lucius Annaeus See also 873.5

873 Latin epic poetry

.1 Virgil (Publius Vergilius Maro)
.2 Lucanus, Marcus Annaeus
.3 Flaccus, Caius Valerius
.4 Silius Italicus, Caius
.5 Statius, Publius Papinius

874 Latin lyric poetry

.1 Catullus, Tibullus and Propertius
.2 Catullus, Valerius
.3 Tibullus, Albius
.4 Propertius, Sextus Aurelius
.5 Horace (Quintus Horatius Flaccus) See also 877.3
.6 Calpurnius Siculus
### 875 Latin oratory

- **1** Cicero, Marcus Tullius: complete works
  - For Cicero's letters see 876.1
- **2** Orations
- **3** Rhetorical works
- **4** Philosphic works  See also 186.3
- **5** Messala Corvinus, Marcus Valerius
- **6** Quintilian  (Marcus Fabius Quintilianus)
- **7**

### 876 Latin letters

- **1** Cicero, Marcus Tullius  For his other works see 875.1-875.4
- **2** Pliny  (Caius Plinius Caecilius Secundus)
- **3** Fronto, Marcus Cornelius
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### 877 Latin satire and humor

- **1** Lucilius, Caius
- **2** Cato, Valerius
- **3** Horace  See 874.5
- **4** Persius Flaccus, Aulus
- **5** Petronius Arbiter, Caius
- **6** Martial  (Marcus Valerius Martialis)
- **7** Juvenal  (Decimus Junius Juvenalis)

### 878 Latin miscellany

- **1** Caesar, Caius Julius
- **2** Sallust  (Caius Sallustius Crispus)
- **3** Nepos, Cornelius
- **4** Livy  (Titus Livius Patavinus)
- **5** Seneca, Lucius Annaeus  See also 872.6 and 188.6
- **6** Tacitus, Caius Cornelius
- **7** Suetonius Tranquillus, Caius
- **8** Curtius Rufus, Quintus
- **9** Minor writers

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- **1** Poetry  
- **2** Drama  
- **3** Fiction  
- **4** Essays  
- **5** Oratory  
- **6** Letters  
- **7** Satire and humor  
- **8** Miscellany
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   .7  Hyperides
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   .9  Minor Greek orators

886  Greek letters
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887  Greek satire and humor
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   .1  Archilochus
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888  Greek miscellany
   .1  Herodotus
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   .4  Plato  See also 184.1 Platonic philosophy
   .5  Aristotle  See also 185.1 Aristotelian philosophy
     Or if preferred, the works of Plato and Aristotle may be put in 184.1 and 185.1
   .6  Æsop
   .7  Lucian
   .8  Plutarch  See also 186.2
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889  Medieval and modern Greek
   .1  Poetry .2  Drama .3  Fiction .4  Essays .5  Oratory .6  Letters
   .7  Satire and humor .8  Miscellany

890  Literature of minor languages
     Subdivided like 490, Philology of minor languages. If wished 1 Poetry; 2 Drama, etc., can be used after the language number; e.g. Russian drama is 891.72, Hebrew poetry 892.41, Bengali poetry 891.441
History

900 History in general
901 Philosophy, theories, etc. History of civilization
902 Compends, chronologies, charts, outlines
903 Dictionaries, cyclopedias, etc.
904 Essays, lectures, addresses
905 Periodicals, historical magazines
906 Societies, transactions, etc.
907 Education, methods of teaching, writing, etc.
See also 371.3
908 Polygrapgy, collected works, extracts, etc.
909 Universal and general modern histories
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.1 A. D. 476—1199. .5 1500—1599
.2 1200—1299 .6 1600—1699
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910 Geografy and travels
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For map projection, see 526.9. See also 310 Statistics, 390 Customs and costumes
For directories, guidebooks, gazetteers, etc. of special countries or geographic sections, see under those sections, 914—919
.1 Traveler's manuals, guidebooks
.2 Dictionaries, gazetteers
.3 Circumnavigations, ocean travel, shipwrecks and disasters, piratic adventures
.4 Periodicals
.5 Societies
.7 Study and teaching of geografy: school map drawing
For primary teaching of geografy see 372.89
.8 Collections of travels, etc.
.9 History of geografy, travels, explorations, etc.
911 Historic Growth and changes in political divisions, etc. Subdivided like 930-999
912 Maps, atlases, plans of cities, etc. Subdivided like 930-999
913 Antiquities, archeology, of special countries See also 220.93 Biblical antiquities; 340.3 Legal antiquities; 571 Prehistoric archeology; 930 Ancient history; 390 Special customs. 913 is divided like 930-999. Note that this 3 is not the ancient history 3. Keltic antiquities are 913.36, not 913.6, which is African
914 Europe 914-919 is subdivided like 940-999. Whenever these main geographic headings occur they may be subdivided exactly like History. The full list of subdivisions is printed only under 940-999. In assigning numbers to travels, use the history tables, insert 1 after the initial 9, and move the decimal point; e.g. Guide to N. Y. City is 017.471, for N. Y. City in History tables is 914.71
915 Asia
916 Africa
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918 South America
919 Oceanica and Polar regions
920 Biography Including autobiography, diaries, personal narratives, eulogies, biographic dictionaries, etc. All biography is here grouped together under the main classes, and subdivided in the same way with the variations indicated below for Philosophy, Theology, and Sociology. i.e. the biography of science is divided like science itself, see 500-599. Lives of chemists are 925.4; of botanists, 925.8; of sailors, 926.56; of actors, 927.92; of the inventor of hard rubber, 926.78, etc. The rule is to give each life the number of the subject it illustrates most, or to the student of which it will be most useful. Another plan is to scatter biography with the other books, leaving 920-928 blank, or using them only for general works, cross references, etc. This simply omits the first 2 figures 92, and the life of a botanist is 580 instead of 925.8, and goes with botanic books.

Lives which will not go under any heading without 'forcing' are best put in a single alphabet under the 3 figures 920 for men and under 920.7 for women

General and collective by localities Including only collected lives too general to go under any subject heading

.01 Universal
.02 Partial collections not limited to any special country or subject
.03 Ancient
.04 Of Europe
.05 " Asia
.06 " Africa
.07 " North America
.08 " South America
.09 " Oceanica
Individual and collectively by subjects

1. Bibliographers
2. Librarians
3. Encyclopedists
4. Publishers Booksellers
5. Journalists
6. Academicians
7. Women Collected, and individual lives not clearly going with any subject
8. Eccentrics, cranks, fools, insane, etc. See also 132.1 Insanity
9. Other special classes not included in 921–928, e.g. phrenologists, somnambulists, mindreaders, magicians, etc.

Of philosophy

1. American
2. English Scotch
3. German
4. French
5. Italian
6. Spanish
7. Slavic
8. Scandinavian and other modern
9. Ancient Oriental Patristic Scholastic See 180–189

Of religion: clergy, missionaries, preachers

921.1–922.88 may be subdivided for nationality like 930–999

1. Primitiv apostles, fathers, etc. oriental, Greek, Russian
   See 225.92 New Testament biography
2. Roman catholic: popes, cardinals, etc.
   Lives of popes
3. Anglican and protestant episcopal
4. Continental protestant: Lutheran, Huguenot
5. Presbyterian and congregational
6. Baptist
7. Methodist
8. Unitarian, universalist and other
   Unitarian Universalist
   Campbellite
   Adventist
   New church or Swedenborgian
   Catholic apostolic
   Quaker
   Mennonite
   Shaker
   Other minor Christian sects
922.9 Nonchristian: atheists

Atheists

• Brahman
• Buddhist
• Parsee
• Jews
• Mohammedan
• Mormon
• Minor nonchristian religions

923 Of sociology

923.1–923.8 may be subdivided for nationality, as in 930–999; e. g. the life of an English king is 923.142; of a Russian czar, 923.147; of a Chinese general, 923.331

.1 Chief rulers: kings, queens, emperors, presidents

.2 Political science: legislativ dep't, governors, politicians, statesmen, nobles, etc. For slaves, see 326.52

.3 Political economy: bankers, capitalists, financiers

.4 Law: judiciary dep't, lawyers, judges

.5 Criminals

.6 Administration: army and navy, civil servis

.7 Associations and institutions Philanthropists, etc.

.8 Education: teachers, school officers, educators

.8 Commerce and communication: railway officials, merchants, etc.

Manners and customs: society, travelers, discovery

924 Of philology

925 " science

926 " useful arts

927 " fine arts

928 " literature

See note under 920 about subdividing. It is seldom wise to use more than 4 figures, unless in a large special collection; e. g. in a music library, lives of pianists may be separated as 927.86. Professors known as specialists go with the subject taught rather than with teachers; e. g. a professor of geology 925.3; but if more prominent as an educator than as a geologist he goes in 923.7

In adding figures for the subdivisions of literature, as in 810–899, historians are put with miscellaneous authors as 8, i. e. Gibbon's life is 928.38; 928.31 is life of a German poet, and 928.691 is life of a Portuguese poet
Genealogy and heraldry

1. Genealogies
2. Families
3. Registers of births, baptisms, marriages, deaths
4. Names of persons and places
5. Epitaphs
6. Heraldry
7. Peerage, precedence, titles of honor
   7.1 Orders of Knighthood
   7.11 St John of Jerusalem
   7.12 Templars
   7.13 Teutonic knights
   7.14 Garter
   7.15 Golden Fleece
   7.16 Holy Ghost

7.19 Great Britain and Ireland
   7.2 Peerage
   7.21 Baronetage
   7.22 Knightage
   7.23 Dignities, precedence
   7.24 Landed gentry
   7.25 Visitations

7.26 Alphabed by counties

7.3 Germany
7.4 France
7.5 Italy
7.6 Spain
7.7 Russia
7.8 Scandinavia
7.9 Minor countries

Divided like 929.72 Minor countries outside Europe are put together in 929.799

8. Coats of arms, crests
9. Flags
Ancient history

China
Egypt
Judea
India
Medo-Persia
   Chaldaea
   Assyria Nineveh
   Media
   Babylonia
   Persia
   Parthia
   New Persian or Sassanian
   Mesopotamia
   Susiana
Kelts
Rome Italy

Period divisions

Kings 753-509 B. C.
Republic 509-31
Conquest of Italy 509-264
Punic wars 264-146
Civil strife 146-31
Empire 31 B. C.-476 A. D.
Constitutional
   Augustus—Illyrian emperors 31 " -284
   Absolute 284-476
   Division of empire 395-476
Geographic divisions

Liguria
Gallia Cisalpina
Venetia Istria
Umbria Picenum Sabini, etc.
Etruria
Latium, Rome
Southern Italy: Campania, Samnium, Apulia, etc.
Sicily, Syracuse
Sardinia Corsica
**Greece**

**Period divisions**

| .01 | Mythical age | -776 B.C. |
| .02 | Growth of states | 775-500 |
| .03 | Persian wars | 500-479 |
| .04 | Athenian supremacy | 479-431 |
| .05 | Peloponnesian war | 431-404 |
| .06 | Spartan and Theban supremacy | 404-362 |
| .07 | Macedonian supremacy | 362-323 |
| .08 | Roman conquest of Greece | 323-146 |
| .09 | Greek subjection | 146 B.C.-323 A.D. |

Byzantine empire is put 940.5

| .1 | Macedonia |
| .2 | Thessaly | Epirus |
| .3 | Acarnania | Ætolia | Locris | Doris | Phocis | Ithaca |
| .4 | Boeotia | Megaris | Euboea |
| .5 | Attica |
| .6 | Peloponnesus |
| .7 | Corinthia | Achaia |
| .8 | Elis | Arcadia | Argolis |
| .9 | Messenia | Laconia | Sparta |

**Geographic divisions**

**Minor countries**

| .1 | Grecian archipelago |
| .11 | Northern islands: Thasos, Lemnos, etc. | .12 Lesbos | .13 Chios, etc. |
| .14 | Samos, etc. | .15 Cyclades | .16 Rhodes, etc. |
| .17 | Carpathos | .18 Crete |
| .2 | Western Asia Minor |
| .21 | Mysia, Troas | .22 Lydia | .23 Ionia | .24 Caria |
| .25 | Bithynia | .26 Phrygia | .27 Pisidia | .28 Lycia |
| .29 | Pamphylia |
| .3 | Eastern Asia Minor |
| .31 | Paphlagonia | .32 Galatia | .33 Pontus | .34 Cappadocia |
| .35 | Cilicia | .36 Commagene | .37 Cyprus |
| .4 | Syria |
| .41 | Upper Syria | .42 Coele Syria | .43 Palmyra | .44 Phenicia, Tyre |
| .45 | Palestine: Hittites, Philistines, etc. | .46 Edom, Moab, Bashan, etc. | .47 Arabia | .48 Arabia Petraea, Sinai |
| .5 | Northwestern Asia |
| .51 | Scythia | .52 Sarmatia Asiatica | .53 Colchis | .54 Iberia |
| .55 | Armenia | .56 Albania |
| .6 | South Central Asia |
| .61 | Sogdiana | .62 Hyrcania | .63 Margiana | .64 Bactriana | .65 Ariana |
| .7 | Minor African countries |
| .71 | Mauritania | .72 Numidia | .73 Africa Propria, Carthage |
| .74 | Syrtica Regio | .75 Cyrenaica | .76 Marmarica | .77 Libya, Gaetulia | .78 Aethioplia |
| .8 | Southeastern Europe |
| .81 | Sarmatia Europae | .82 Dacia | .83 Vinodelicia | .84 Rhaetia |
| .85 | Noricum | .86 Pannonia | .87 Illyria | .88 Moesia |
| .89 | Thracia |
# Modern history

## Europe

<table>
<thead>
<tr>
<th>Section</th>
<th>Time Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medieval Europe</td>
<td>476–1453</td>
</tr>
<tr>
<td>Rise of new nations</td>
<td>476–800</td>
</tr>
<tr>
<td>Age of feudalism</td>
<td>800–1100</td>
</tr>
<tr>
<td>Age of chivalry</td>
<td>1100–1453</td>
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<td>Modern Europe</td>
<td>1453–476</td>
</tr>
<tr>
<td>Renaissance period</td>
<td>1453–1517</td>
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<tr>
<td>Age of the Reformation</td>
<td>1517–1789</td>
</tr>
<tr>
<td>Napoleonic period</td>
<td>1789–1815</td>
</tr>
<tr>
<td>Current history</td>
<td>1815–</td>
</tr>
</tbody>
</table>

## Scotland

### Period divisions

<table>
<thead>
<tr>
<th>Period</th>
<th>Time Period</th>
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<tbody>
<tr>
<td>Gaelic period</td>
<td>-1097</td>
</tr>
<tr>
<td>English period</td>
<td>1097–1314</td>
</tr>
<tr>
<td>Struggle for national freedom</td>
<td>1314–1424</td>
</tr>
<tr>
<td>Independent kingdom</td>
<td>1424–1557</td>
</tr>
<tr>
<td>The Jameses</td>
<td>1557–1603</td>
</tr>
<tr>
<td>Reformation</td>
<td>1603–1707</td>
</tr>
<tr>
<td>Union of crowns and parliaments</td>
<td>1707–1837</td>
</tr>
<tr>
<td>Hanover</td>
<td>1837–</td>
</tr>
<tr>
<td>Victorian</td>
<td></td>
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</tbody>
</table>

### Geographical divisions

#### Northern Scotland

<table>
<thead>
<tr>
<th>Region</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shetland</td>
<td>11.1</td>
</tr>
<tr>
<td>Orkney</td>
<td>12.2</td>
</tr>
<tr>
<td>Caithness</td>
<td>13.3</td>
</tr>
<tr>
<td>Sutherland</td>
<td>14.4</td>
</tr>
<tr>
<td>Cromarty</td>
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</tr>
<tr>
<td>Ross</td>
<td>16.6</td>
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<tr>
<td>Hebrides</td>
<td>17.7</td>
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#### North central Scotland

<table>
<thead>
<tr>
<th>Region</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inverness</td>
<td>21.1</td>
</tr>
<tr>
<td>Nairn</td>
<td>22.2</td>
</tr>
<tr>
<td>Elgin</td>
<td>23.3</td>
</tr>
<tr>
<td>Banff</td>
<td>24.4</td>
</tr>
<tr>
<td>Aberdeens</td>
<td>25.5</td>
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<tr>
<td>Kincardine</td>
<td>26.6</td>
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#### South central Scotland

<table>
<thead>
<tr>
<th>Region</th>
<th>City</th>
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<tbody>
<tr>
<td>Forfar</td>
<td>31.1</td>
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<tr>
<td>Perth</td>
<td>32.2</td>
</tr>
<tr>
<td>Fife</td>
<td>33.3</td>
</tr>
<tr>
<td>Kinross</td>
<td>34.4</td>
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<tr>
<td>Clackmann</td>
<td>35.5</td>
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<tr>
<td>Sterling</td>
<td>36.6</td>
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<tr>
<td>Dunbarton</td>
<td>37.7</td>
</tr>
<tr>
<td>Argyll</td>
<td>38.8</td>
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<tr>
<td>Bute</td>
<td>39.9</td>
</tr>
</tbody>
</table>

#### Southern Scotland

<table>
<thead>
<tr>
<th>Region</th>
<th>City</th>
</tr>
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<tbody>
<tr>
<td>Renfrew</td>
<td>41.1</td>
</tr>
<tr>
<td>Ayr</td>
<td>42.2</td>
</tr>
<tr>
<td>Lanark</td>
<td>43.3</td>
</tr>
<tr>
<td>Linlithgow, Edinburgh</td>
<td>44.4</td>
</tr>
<tr>
<td>Haddington, Berwick</td>
<td>45.5</td>
</tr>
<tr>
<td>Peebles, Selkirk</td>
<td>46.6</td>
</tr>
<tr>
<td>Roxburgh</td>
<td>47.7</td>
</tr>
<tr>
<td>Dumfries</td>
<td>48.8</td>
</tr>
<tr>
<td>Kirkcudbright, Wigton</td>
<td>49.9</td>
</tr>
</tbody>
</table>
Ireland

Period divisions

- Early history -1086
- Separate kingdoms 1086-1172
  - Conquest by Henry 2
- Plantagenet 1172-1399
- Lancaster and York 1399-1485
- Tudors 1485-1603
- Stuarts 1603-91
  - Closing with treaty of Limerick
- Hanover 1691-1801
  - Closing with the union
- 19th century 1801-1900
- Early 20th century

Geographic divisions

Ulster
- Antrim .61 Londonderry .62 Donegal .63 Tyrone
  - Down .65 Armagh .66 Monaghan .67 Fermanagh
  - Cavan .69

Connacht
- Leitrim .71 Sligo .72 Mayo .73 Galway .74 Roscommon

Leinster
- Longford, West Meath .81 Meath, Louth .82 Dublin
  - Wicklow .83 Kildare .84 King's co.
  - Carlow, Wexford .85 Queen's co.
  - .86 .88 Kilkenny

Munster
- Waterford .91 Tipperary .92 Clare .93 Limerick
  - Cork .94 .95 Kerry

England

Period divisions

For specially minute work the 6th figure printed for each sovereign may be used; e.g. Henry 7 is 942.051

Anglo-Saxon
- Prehistoric, Roman, British, Danish

Norman
- 1 William 1 1066-87 2 William 2 1087-1100 3 Henry 1
  - 1100-35 4 Stephen 1135-54

Plantagenet
- 1 Henry 2 1154-89 2 Richard 1 1189-90 3 John 1199-1216
  - 4 Henry 3 1216-72 5 Edward 1 1272-1307 6 Edward 2
  - 1307-27 7 Edward 3 1327-77 8 Richard 2 1377-99

B. C. 55-A. D. 1066
<table>
<thead>
<tr>
<th>Period</th>
<th>Events</th>
</tr>
</thead>
<tbody>
<tr>
<td>1400-85</td>
<td>Lancaster and York</td>
</tr>
<tr>
<td>Tudor</td>
<td>1485-1603</td>
</tr>
<tr>
<td>Stuart</td>
<td>1603-1714</td>
</tr>
<tr>
<td>Hanover</td>
<td>1714-1837</td>
</tr>
<tr>
<td>Later Hanoverian</td>
<td>1837-</td>
</tr>
</tbody>
</table>

**Geographic divisions**

- **Middlesex** London
- **Southeastern**
  - 21 Surrey
  - 23 Kent
  - 25 Sussex
  - 27 Hants
  - 28 Isle of Wight
  - 29 Berks
- **Southwestern**
  - 31 Wilts
  - 33 Dorset
  - 34 Channel Islands
  - 35 Devon
  - 37 Cornwall
  - 38 Somerset
- **West Midland**
  - 41 Gloucester
  - 43 Monmouth
  - 44 Hereford
  - 45 Salop
  - 46 Stafford
  - 47 Worcester
  - 48 Warwick
- **North and South Midland**
  - 51 Derby
  - 52 Notts
  - 53 Lincoln
  - 54 Leicester, Rutland
  - 55 Northampton
  - 56 Huntingdon, Bedford
  - 57 Oxford, Buckingham
  - 58 Hertford
  - 59 Cambridge
- **Eastern**
  - 61 Norfolk
  - 64 Suffolk
  - 67 Essex
- **Northwestern and Yorkshire**
  - 71 Cheshire
  - 72 Lancashire
  - 74 Yorkshire
- **Northern**
  - 81 Durham
  - 82 Northumberland
  - 85 Cumberland
  - 88 Westmorland
  - 89 Isle of Man
- **Wales**
  - 91 Anglesey
  - 92 Carnarvon, Merioneth
  - 93 Denbigh, Flint
  - 94 Montgomery
  - 95 Cardigan
  - 96 Radnor, Brecknock
  - 97 Glamorgan
  - 98 Carmarthen
  - 99 Pembroke
Germany and Austria

Period divisions

01 Formative period
Wars with Rome  Charlemagne 800–814  Louis I 814–840
Lothaire I 840–843

02 Empire before the reformation
1 Carolingian 843–911: Louis II 843–876  Charles II 876–877
Charles III 877–887  Arnulf 887–899  Louis III 900–911
Otto III 983–1002  Henry II 1002–12
House of Saxony: Lothaire II 1125–37
William of Holland 1254–56  Richard of Cornwall 1256–72
8 Albert II 1438–39  Frederick III 1440–93
9 Maximilian I 1493–1519

03 Reformation to 1618
1517–1618
1 Charles V 1519–56  2 Ferdinand I 1556–64  3 Maximilian II 1564–76  4 Rodolph II 1576–1612  5 Matthias 1612–19

04 Disintegration
1618–1705
1 Thirty years’ war 1618–48  2 Ferdinand II 1619–37  3 Ferdinand III 1637–57  4 Leopold I 1658–1705

05 Rise of Prussia
1705–89
1 Joseph I 1705–11  2 Charles VI 1711–40  3 1740–42
4 Charles VI 1742–45  5 Francis I 1745–63  6 Seven years war 1756–63  7 Joseph II 1765–90

06 Napoleonic wars
1789–1815
Leopold II 1790–92  Francis II 1792–1806  Confederation of the Rhine 1806–15

07 Reorganization
1815–66

08 New German empire
1866–
1 North German confederation 1866–71  2 Franco-German war 1870–71  3 William I 1871–88  4 Frederick I 1888–90
William II 1888–

Geographic divisions of Germany and Austria

1 Prussia and Northern Germany
11 East Prussia  12 West Prussia  13 Posen  14 Silesia
15 Brandenburg  16 Pomerania  17 Mecklenburg and Lübeck  18 Prussian Saxony  19 Anhalt

2 Central Germany
21 Saxony  22 Thuringia  23 Saxe-Weimar  24 Saxe-Altenburg  25 Saxe-Gotha-Coburg  26 Saxe-Meiningen
27 Schwartzburg  28 Reuss
943.3 Bavaria
.31 Upper Franconia .32 Middle Franconia .33 Lower Franconia .34 Upper Palatinate .35 Lower Bavaria .36 Upper Bavaria .37 Suabia

.4 Southern Germany
.41 Hesse Darmstadt .42 Rhenish Prussia .43 Rhenish Bavaria .44 Alsace .45 Lorraine .46 Baden .47 Wurttemburg .48 Black Forest and Danube .49 Hohenzollern

.5 Northwest Germany
.51 Schleswig-Holstein and Hamburg .52 Oldenburg and Bremen .53 Hanover .54 Brunswick .55 Lippe .56 Westphalia .57 Waldeck .58 Hesse-Nassau

943.6 Austria
.61 Lower Austria .62 Upper Austria .63 Salzburg .64 Tyrol .65 Styria .66 Carinthia .67 Carniola .68 Istria .69 Dalmatia

.7 Bohemia, etc.
.71 Bohemia .72 Moravia .73 Silesia .74 Galicia .75 Bukowina

.8 Poland Including history before the division

.9 Hungary, etc.
.91 Hungary .92 Transylvania .93 Slavonia .94 Croatia, Fiume .95 Bosnia .96 Herzegovina

944 France
Period divisions
.01 Early history -987
Ancient celt 59 B. C. Roman dominion 59 B. C.-418 A. D. Merovingian dynasty 428-752 Carolingian 752-987

.02 Capet and Valois 987-1589
House of Capet
1 Hugh Capet 987-996 Robert 2 996-1031 Henry 1 1031-60
2 Philip 1 1060-1108 Louis 6 1108-37 Louis 7 1137-80
3 Philip 2 1123-80 Louis 8 1223-66 Louis 9 1226-70
4 Philip 3 1270-85 Philip 4 1285-1314 Louis 10 1314-16
John 1 1316 Philip 5 1316-22 Charles 4 1322-28

House of Valois
5 Philip 6 1328-50 John 2 1350-64 Charles 5 1364-80
6 Charles 6 1380-1422 Charles 7 1422-61
7 Louis 11 1461-83 Charles 8 1483-98 Louis 12 1498-1515

House of Angouleme
8 Francis 1 1515-47 Henry 2 1547-59
9 Francis 2 1559-60 Charles 9 1560-74 Henry 3 1574-89

.03 Bourbon 1589-1789
1 Henry 4 1589-1610 2 Louis 13 1610-43 3 Louis 14 1643-1715 4 Louis 15 1715-74 5 Louis 16 1774-89

.04 Revolution 1789-1804
1 National assembly 1789-92 2 First republic 1792-93 3 Convention 1792-95 4 Reign of terror, May 1793-July 1794 5 Directory 1795-99 6 First consulate, Napoleon 1799-1804

.05 First empire 1804-1815
Napoleon 1 1804-14 Louis 18 1814-15 The hundred days
March 20-June 29, 1815
Restoration  1815-1848
1 Louis 18 1815-24  2 Charles 10 1824-30  3 Louis Philippe 1830-48

Second republic and second empire  1848-1870
Revolution of 1848 Second republic, Louis Napoleon, pres. 1848-52 Napoleon 3 1852-70

Third republic  1870-

Second republic, Louis Napoleon, pres. 1848-52 Napoleon 3 1852-70

Napoleon 3 1852-70

Franco-German war. Government of national defense 1870-71

Third republic  1870-

Geographic divisions of France

Brittany  Maine  Anjou
.11 Finistère  .12 Côtes du Nord  .13 Morbihan  .14 Loire Inférieure  .15 Ille et Vilaine  .16 Maine: Mayenne
.17 Sarthe  .18 Anjou: Maine et Loire

Normandy  Picardy
.21 Manche  .22 Calvados  .23 Orne  .24 Eure  .25 Seine Inférieure  .26 Picardy: Somme  .27 Artois: Pas de Calais
.28 Nord

Champagne  Ile de France  Lorraine
.31 Ardennes  .32 Marne  .33 Aube Haute Marne  .34 Ile de France: Aisne  .35 Oise  .36 Seine et Oise, Paris
.37 Seine et Marne  .38 Lorraine: Meuse, Moselle
.39 Meurthe, Vosges

Burgundy  Franche Comté  Savoy
.41 Yonne  .42 Côte d’Or  .43 Saône et Loire  .44 Ain
.45 Franche Comté: Haute Saône, Belfort  .46 Doubs  .47 Jura
.48 Savoy: Savoie  .49 Haute Savoie

Orléans, etc.  Auvergne
.51 Eure et Loir  .52 Loiret  .53 Loir et Cher  .54 Touraine:
Indre et Loir  .55 Berry: Indre, Cher  .56 Nièvre:
Nièvre  .57 Bourbonnais: Allier  .58 Lyonnais: Loire, Rhône  .59 Auvergne: Puy de Dôme, Cantal

Poitou  Limousin
.61 Vendée  .62 Deux-Sèvres  .63 Vienne  .64 Charente
Inférieure  .65 Charente  .66 Limousin: Haute Vienne
.67 Corrèze  .68 Marche: Creuse

Guipine  Gascony
.71 Gironde  .72 Dordogne  .73 Lot  .74 Aveyron  .75 Tarn et Garonne
.76 Lot et Garonne  .77 Gascony: Landes, Gers  .78 Hautes Pyrénées  .79 Béarn: Basses Pyrénées

Languedoc
.81 Haute Loire, Lozère  .82 Ardèche  .83 Gard  .84 Hérault
.85 Tarn  .86 Haute Garonne  .87 Aude  .88 Foix: Ariège
.89 Pyrénées Orientales

Provence  Dauphiny
.91 Bouches du Rhône  .92 Vaucluse  .93 Var  .94 Alpes Maritimes  .95 Basses Alpes  .96 Dauphiny  .97 Hautes Alpes  .98 Drôme  .99 Isère
Italy

Period divisions

01 Gothic and Lombard kingdoms 476-774
02 Frankish emperors 774-961
03 German emperors 962-1122
   Hildebrand and papal supremacy
04 Age of the communes 1100-1300
   Free cities Strifes of Guelphs and Ghibelines
05 Age of the despots 1300-1492
06 Age of invasions 1492-1527
07 Spanish-Austrian ascendancy 1527-1796
08 Struggle for independence 1796-1870
09 United Italy 1870-
   Victor Emanuel, Cavour, Garibaldi

Geographic divisions of Italy

1 Piedmont and Liguria
2 Lombardy
3 Venetia
4 Emilia
5 Tuscany
6 Marches, Umbria and Latium
7 Naples
   71 Abruzzo and Molise 72 Campania 73 Napoli
   74 Salerno 75 Apulia 76 Lecce, Terra di Otranto
   77 Basilicata, Potenza 78 Calabria 79 Reggio di Calabria
8 Sicily Malta
9 Sardinia and Corsica

Spain

Period divisions

01 Early history Roman dominion Gothic kingdom 711
02 Moorish kingdom 711-1479
03 Ferdinand 5 and Isabella 1479-1516
   Discovery
   Expulsion of the Moors
04 Charles 1 and Philip 2 1516-98
   Inquisition War with the Netherlands Armada
   (5 of Germany) 1516-56 Philip 2 1556-98
05 Philip 3 — Charles 4 1598-1808
   Degeneration 1 Philip 3 1598-1621 2 Philip 4 1621-65
   3 Charles 2 1665-1700 4 House of Bourbon 5 Philip 5
   1700-46 6 Ferdinand 6 1746-59 7 Charles 3 1759-88
   8 Charles 4 1788-1808
06 Peninsular war 1808-14
   Joseph Bonaparte
07 Bourbon restoration 1814-68
   Attempts at reform
   Ferdinand 7 1814-33 Isabella 2 1833-68
08 Revolution and 2d restoration 1868-
   Revolution of 1868-70 Amadeus 1870-73 Republic 1873-75
   Alfonso 12 1875-85 Alfonso 13 1886-
Geographic divisions of Spain

946.1 Galicia Asturias

946.2 Leon Estramadura

946.3 Old Castile

946.4 New Castile

946.5 Aragon

946.6 Basque provinces

946.7 Catalonia Balearic Isles Valencia Murcia

946.8 Andalusia Canary Isles

946.9 Portugal

946.98 Madeira

946.99 Azores

Russia

947 Period divisions

947.01 Primitiv Russia — 862

947.02 Varangian kingdom 862–1237

Conversion to Christianity

947.03 Mongolian invasion 1237–1462

Civil wars

947.04 Ivan 3–Ivan 5 1462–1689

Origin of serfdom

947.05 Peter the Great 1689–1725

Wars with Sweden and Turkey

947.06 Catharine 1–Catharine 2 1725–96

Partition of Poland

947.07 Paul 1–Nicholas 1 1796–1855

War with Napoleon

Insurrection of Poland

Crimean war See also 942.08, 944.07, 945.08, 949.6

947.08 Alexander 2 1855–81

Emancipation of the serfs

Turko-Russian war

Alexander 3 1881–94

Nicholas 2 1894–

Geographic divisions of Russia

947.1 Finland Lapland

947.2 Northern Great Russia

Archangel, Vologda, Olonetz, Novgorod

947.3 Southern Great Russia

947.4 Baltic provinces

Courland, Livonia, Esthonia, St Petersburg

947.5 Russian Poland

947.6 West Russia

947.7 Little Russia South Russia

947.8 East Russia

947.9 Caucasia
Norway Sweden Denmark

Period divisions

| .01 | Legendary period | -800 |
| .02 | Consolidation Migration | 801-1397 |
|     | Introduction of Christianity |
|     | Discovery of Iceland, Greenland, and America |
|     | Conquest of Britain and Normandy |
| .03 | Union of the 3 kingdoms | 1397-1523 |
|     | Civilization Foren relations |
| .04 | The reformation | 1523-1648 |
|     | Edict of toleration | 1527 |
|     | 30 years war | Gustavus Adolphus |
| .05 | Decline | 1648-1792 |
|     | Wars vs Denmark, Poland, Russia |
|     | Political changes |
| .06 | Napoleonic wars | 1792-1818 |
|     | Union of Norway and Sweden | 1814 |
| .07 | Charles 14 (Bernadotte) | 1818- |
|     | Peace | Internal reform |

Geografic divisions

1. Norway
   2. Christiania
   3. Christiansand Bergen
   4. Hamar Throndhjem Tromso

5. Sweden
   6. Gothland
   7. Svealand
   8. Norrland
   9. Denmark

Minor countries of Europe

1. Iceland Faroe Islands
   01 Commonwealth | 1264 |
   02 Medievalism | 1264-1551 |
   03 Absolute rule, Decay | 1551-1848 |
   04 Modern Iceland | 1848- |

2. Netherlands
   01 Early history | 1477 |
   02 Austrian dominion | 1477-1566 |
   Wars for independence | 1566-1648 |
   04 Age of prosperity | 1648-1705 |
   05 Revolutionary | 1705-1830 |
   06 19th century | 1830-1900 |
   07 20th century | 1901- |

3. Belgium

4. Switzerland
   01 Early history | 1300 |
   02 Struggle for independence | 1300-1499 |
   03 Reformation | 1499-1648 |
   04 Period of tranquillity | 1648-1789 |
   05 Period of revolution | 1789-1815 |
   06 19th century | 1815-1900 |
   07 20th century | 1901- |
949.5 Byzantine empire and modern Greece
  01 Greek revival 323–716
    Constantine the great–Theodosius 3

  02 Byzantine prosperity 716–1057
    Leo 3–Michael 6

  03 Byzantine decline 1057–1204
    Isaac 1–Latin conquest of Constantinople

  04 Greek survival 1204–1453
    Constantinople taken by the Turks, 1453

  05 Turkish power 1453–1821

  06 Greek independence 1821–

.6 Turkey in Europe .61 Constantinople
.7 Servia Bulgaria Montenegro
.8 Rumania: Wallachia, Moldavia
.9 Islands of Greek archipelago
  Divided like 939.1

950 Asia

951 China
  .1 N. E. China, Peking .2 S. E. China, Canton, Hong Kong, Formosa .3 S. W. China .4 N. W. China .5 Tibet .6 East Turkestan .7 Mongolia .8 Manchuria .9 Korea

952 Japan

953 Arabia
  .1 Sinai .2 Hejaz, Mecca .3 Yemen .4 Hadramaut, Mahrah .5 Oman .6 Hasa .7 Dahna .8 Nejd .9 Syrian desert

954 India
  .1 Bengal, Orissa, Assam, Bhotan .2 Northwest provinces, Oudh, Nepal .3 Central provinces .4 Rajputana .5 Punjab, Delhi, Lahore .6 Kashmir .7 Bombay, Sind, Baroda .8 Madras, Mysore, Travancore, Ceylon .9 Hyderabad

955 Persia

956 Turkey in Asia
  See also 949.6
  .1 Khodavendikyar .2 Aidin, Smyrna .3 Kastamuni, Angora .4 Konieh, Adana, Cyprus .5 Trebizond, Sivas .6 Erzerum, Diarbekr, Karpul .7 Bagdad, Kurdistan .8 Aleppo .9 Damascus, Phenia, Palestine

957 Siberia

958 Afghanistan Turkestan Baluchistan
  .1 N. E. Afghanistan, Kabul .2 South Afghanistan, Kandahar .3 N. W. Afghanistan, Herat .4 Turkistan .5 Kiva .6 Bokhara .7 Fergana or Khokan .8 Baluchistan

959 Farther India
  .1 British Burma .2 Burma .3 Siam .4 Laos .5 Lower Siam, Malay peninsula .6 Cambodia .7 French Cochín China .8 Anam .9 Tonkin
Africa

North Africa
.1 Tunis .2 Tripoli .3 Fezzan

Egypt
.1 Lower Egypt, Alexandria, Cairo .2 Middle Egypt .3 Upper Egypt, Thebes .4 Nubia .5 Dongola .6 Egyptian Sudan, Kartum .7 Darfur .8 Kordofan .9 Sennaar

Abyssinia

Morocco

Algeria

North Central Africa
.1 Sahara .2 Sudan .3 Senegambia .4 Sierra Leone .5 Upper Guinea .6 Liberia .7 Ashanti .8 Dahomey .9 Gold Coast

South Central Africa
.1 Lower Guinea .2 Loango, Congo .3 Angola, Benguela .4 Interior .5 Congo basin .6 Central lake region .7 Somali .8 Zanzibar .9 Mozambique

South Africa
.1 Sofala .2 Transvaal .3 Zululand .4 Natal .5 Orange Free State .6 Kaffraria .7 Cape Colony .8 West Coast .9 Interior

Madagascar Mauritis
North America

.1 Indians, aborigines .2 Lives of Indians .3 Special tribes
.4 Special states .5 Government relation and treatment .6 Special subjects: character, civilization, agriculture, etc.

See 371.93 Education; 572.97 Ethnology; 497 Languages

Canada

General works on Canada under British rule
For histories of special periods see 971.01-.054; of special provinces see 971.1-.9
For constitutional history see 342.71

Period subdivisions

For works not limited to any of the territorial subdivisions .1-.9 but dealing with a limited period.
Class archives with their periods and segregate them if wished by booknumbers that will automatically locate them ahead of other histories having the same class number: e.g. A1-A9 if Cutter numbers are used for other works; Aa-Az with Cutter-Sanborn numbers

.01 French regime 1497-1763
From earliest time till cession to England

.011 Discovery and early settlement 1497-1632
Early explorations along Atlantic seaboard 1497-1533. Discovery and occupation of St Lawrence 1534-43. Rise of furtrade 1544-1612. Permanent colonization 1613-32

.016 Extension of English rule 1632-1763
Treaty of St Germain-en-Laye 20 Mar. 1632

.018 Struggle with England for supremacy
Peace of Utrecht 1713-Peace of Paris 1763. Seven years war 1755-63; in United States called French and Indian war. British supremacy dates actually from fall of Quebec, 1759; formally from peace of Paris, 10 Feb. 1763

.02 End of 7 years war to constitutional act 1791
Conspiracy of Pontiac 1763-64
Quebec act 1774

.024 American revolution United Empire loyalists
Canadian libraries will class here United Empire loyalists, but works on the revolution 1775-83 are better put in 973.3

.03 1792 to Union act 1841
See also 971.3 Ontario and 971.4 Quebec

.034 War of 1812
1812-15 In United States called also 2d war for independence
Better class in 973.52 (United States history)

.038 Rebellion 1837-38

.039 Union act 10 Feb. 1840
Passage of Union act, closing the period under the Constitutional act. See also constitutional history, 342.719

.04 Union 1841 to Confederation 1867
Beginning with operation of Union act; Canadian parliament at Ottawa 13 June 1841. Class clergy reserves agitation in 971.3 Ontario; abolition of seigniories in 971.4 Quebec

.048 Fenian invasions

.049 British North America act 29 March 1867

.05 Dominion of Canada 1867-
Canada under British North America act

.051 Red river (Riel’s 1st) rebellion 1870

.054 Northwest (Riel’s 2d) rebellion 1885
Geographic subdivisions of Canada

971.1 British Columbia

.2 Northwest Territories
   Including former Hudson Bay territory

.21 Yukon
   Klondike region Dawson (city)

.22 Mackenzie

.23 Alberta

.24 Saskatchewan

.26 Keewatin

.27 Manitoba

.28 Ungava

.29 Franklin
   See also 978 Arctic region

.3 Ontario
   For St Lawrence river see 971.4
   Formerly also Upper Canada or Canada West
   See also 971.4 note Class here Clergy reserves

.31 Northwestern
   North shore of Lake Superior and Lake Huron; Georgian bay

.311 Rainy River district
   Lake of the Woods Rainy lake

.312 Thunder Bay district
   Fort William

.313 Algoma district
   Sault Ste Marie
   Manitoulin island

.314 Nipissing district

.315 Parry Sound Maganetawan districts

.316 Muskoka Lake of Bays district

.317 Simcoe

.318 Grey Owen sound (or Sydenham)

.32 Western
   East shore of Lake Huron

.321 Bruce

.322 Huron

.323 Perth

.324

.325 Middlesex

.326 London (city)

.327 Lambton

.33 Southwestern
   North shore of Lake Erie

.331 Essex

.332 Windsor (city)

.333 Kent

.334 Elgin

.335 St Thomas (city)

.336 Norfolk

.337 Haldimand

.338 Welland

.34 West central

.341 Dufferin

.342 Wellington

.343 Guelph (city)

.344 Waterloo

.345 Berlin (city)

.346 Oxford

.347 Brant

.348 Brantford (city)
Southern
West and North shore of Lake Ontario
- 351
Lincoln
- St Cathertines (city)
- 352
Wentworth
- Hamilton (city)
- 353
Halton Peel
- 354
York
- 355
Toronto (city)
- Ontario
- 356
Durham
- 357
Northumberland
- 358
Hastings
- Prince Edward
- Lennox and Addington
- Central
- Haliburton
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Victoria
- Peterborough
- Peterborough (city)
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Southeastern
St Lawrence river counties
- Frontenac
- Kingston (city)
- Leeds
- Rideau lakes and canal
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Grenville
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Dundas
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Stormont
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Glengarry
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Northeastern
Ottawa river counties
- Renfrew
- Lanark
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- Ottawa (city)
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Russell
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Prescott
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Quebec  St Lawrence river

Lower Canada or Canada East
From its cession by France to England in 1763 all Canada was one colony, the Province of Quebec, till 1791. In 1791 it was divided by the constitutional act into 2 provinces: Upper Canada (Ontario) and Lower Canada (Quebec). By the union act, 1840, the 2 provinces were reunited as the Province of Canada; and in 1867 by the British North America act again divided into the provinces of Ontario and Quebec.

Northern
Mistassini
Abitibi
Lake St John
Chicoutimi
Saguenay
Anticosti island
Ashuanipi

Western
Ottawa river counties
Pontiac
Ottawa (former county)
Wright
Hull (city)
Labelle
Argenteuil
Terre Bonne
Two Mountains
Vaudreuil
Soulanges
Laval
Hochelaga
Montreal
Jacques Cartier

Southwestern
Counties south of the St Lawrence and west of Richelieu river
Huntingdon
Beauharnois
Chateaugay
La Prairie
Napierville
Verchères
Chambly
St Johns

North Central
Counties north of St Lawrence from Montreal to Saguenay river
Montcalm
L'Assomption
Joliette
Berthier
Maskinonge
St Maurice
Champlain
Portneuf
Quebec
Quebec (city)
Montmorency
Isle d'Orléans
Charlevoix
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<th>South Central</th>
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<td>Richelieu</td>
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<td>452</td>
<td>St Hyacinthe</td>
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<td>Bagot</td>
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<td>Rouville</td>
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<td>Yamaska</td>
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<td>455</td>
<td>Nicolet</td>
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<td>456</td>
<td>Drummond</td>
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<td>5</td>
<td>Arthabaska</td>
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<td>457</td>
<td>Wolfe</td>
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<td>Megantic</td>
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<td>458</td>
<td>Lotbinière</td>
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<td>459</td>
<td>Levis</td>
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<td>46</td>
<td>Southern</td>
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<td>461</td>
<td>Iberville</td>
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<td>462</td>
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<td>463</td>
<td>Shefford</td>
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<td>Richmond</td>
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<td>466</td>
<td>Sherbrooke (city)</td>
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<td>467</td>
<td>Stanstead</td>
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<td>468</td>
<td>Compton</td>
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<td>469</td>
<td>Lake Megantic</td>
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<td>47</td>
<td>Southeastern</td>
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<td>Dorchester</td>
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<td>5</td>
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<td>474</td>
<td>L'Islet</td>
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<td>Rimouski</td>
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<td>Bonaventure</td>
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<td>Gaspé</td>
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<td>Magdalen Islands</td>
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<th>New Brunswick</th>
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<td>Northern</td>
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<td>51</td>
<td>Restigouche</td>
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<td>Gloucester</td>
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<td>52</td>
<td>Eastern</td>
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<td>521</td>
<td>Northumberland</td>
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<td>522</td>
<td>Kent</td>
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<tr>
<td>523</td>
<td>Westmoreland (city)</td>
</tr>
<tr>
<td>5</td>
<td>Monckton (city)</td>
</tr>
</tbody>
</table>
Southern
   Albert
   St John
   St John (city)
   Charlotte
   Grand Manan lland

Central
   Kings
   Queens
   Sunbury

Western
   York
   Fredericton (city)
   Carleton
   Victoria
   Madawaska

Nova Scotia

Northern
   Cumberland
   Colchester
   Pictou
   Antigonish

Southern
   Guysborough
   Halifax co. and city
   Lunenburg
   Queens
   Shelburne

Western
   Yarmouth
   Digby
   Annapolis
   Kings
   Hants
   Cape Breton (iland)
   Inverness
   Victoria
   Cape Breton
   Sydney (city)
   Richmond

Prince Edward Island
   Prince
   Queens
   Charlottetown (city)
   Kings

Newfoundland

Labrador
   For Moravian missions see 266 45
### Period divisions

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
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<tr>
<td>.01</td>
<td>Ancient civilization</td>
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<tr>
<td>1</td>
<td>Toltec</td>
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<td>2</td>
<td>Chichimec</td>
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<td>3</td>
<td>Tarascan</td>
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<td>4</td>
<td>Aztec</td>
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<tr>
<td>.02</td>
<td>Discovery and Spanish rule</td>
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<td>.03</td>
<td>Independence</td>
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<td>.04</td>
<td>First empire</td>
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<td>1</td>
<td>Iturbide</td>
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<td>2</td>
<td>Pronunciamientos</td>
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<tr>
<td>.05</td>
<td>War with United States. See also 073.6</td>
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<td>.06</td>
<td>Constitution of '57 Reform</td>
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<td>.07</td>
<td>French intervention</td>
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<td>.08</td>
<td>Later history</td>
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### Geografic divisions

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<td>Free zone and Northern states</td>
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<tr>
<td></td>
<td>Tamaulipas, Nuevo Leon, Coahuila, Chihuahua, Sonora, Durango</td>
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<td>.2</td>
<td>Lower California and islands</td>
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<td>.3</td>
<td>Central Pacific states</td>
</tr>
<tr>
<td></td>
<td>Sinaloa, Jalisco, Colima, Michoacan</td>
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<tr>
<td>.4</td>
<td>Interior states</td>
</tr>
<tr>
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<td>Zacatecas, San Luis Potosi, Aguascalientes, Guanajuato Querétaro, Hidalgo, Puebla, Tlascala, Morelos</td>
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<tr>
<td>.5</td>
<td>Mexico Federal district</td>
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<td>.6</td>
<td>Southern Gulf states</td>
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<tr>
<td></td>
<td>Veracruz, Tabasco, Campeche, Yucatan</td>
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<tr>
<td>.7</td>
<td>Southern Pacific states</td>
</tr>
<tr>
<td></td>
<td>Guerrero, Oaxaca, Isthmus of Tehuantepec, Chiapas</td>
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<td>.8</td>
<td>Central America</td>
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<td>.81</td>
<td>Guatemala</td>
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<td>.82</td>
<td>British Honduras Belize</td>
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<td>Honduras</td>
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<td>Costa Rica</td>
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<td>.9</td>
<td>West Indies</td>
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<td>.91</td>
<td>Cuba</td>
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<td>Jamaica</td>
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<td>Santo Domingo</td>
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<td>Hayti</td>
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<td>Porto Rico</td>
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<td>Bahamas</td>
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<td>Leeward islands</td>
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<td>Windward islands Barbados</td>
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<td>.99</td>
<td>Bermudas</td>
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</tbody>
</table>
United States

SUMMARY OF 973

.1 Discovery —1607

From earliest times to settlement of Jamestown

See also 970.1–6 American indians; 913.7 American antiquities; 571.91 Mounds and mound builders; 571.85 Pueblos

.11 Precolombian

For precolombian claims of Chinese, Norse, Welsh, etc. see .12 to .18 below

Arabs
Jews
Africans
Irish

.12 Chinese

.13 Norse

Gunnbiorn
Eric the Red
Leif Ericson

.14 Welsh

Prince Madoc

.15 Columbus

.16 Spanish and Portuguese

Dates of voyages are added to names

Amerigo Vespucci 1497–1504
Gaspar and Miguel Cortereal 1500–2 Labrador
Juan Ponce de Leon 1513–21 Florida
Vasco Nuñez de Balboa 1513 Pacific ocean
Hernando Cortés 1518–40 See also 972.02 History of Mexico
Fernando da Magalhaens 1518–21 Magellan straits
Francisco Pizarro 1524–41 See also 983 History of Peru
Hernando de Soto 1539–42 Mississippi river
Francisco Vasquez de Coronado 1540–42 New Mexico, Arizona, Colorado

.17 English

John and Sebastian Cabot 1497–1530
Sir John Hawkins 1562–69
Sir Francis Drake 1570–80
Sir Martin Frobisher 1578–78
Sir Humphrey Gilbert 1578–83
Sir Walter Raleigh 1578–1602
John Davis 1585–87
Bartholomew Gosnold 1602–07
French
Giovanni da Verrazano 1524
Jacques Cartier 1534-44 Canada
Jean Ribault 1562-65 Florida
René de Laudonnière 1564-66 Florida
Samuel de Champlain 1603-35 See also 971 History of Canada

Other nations

Colonial 1607-1775

Virginia settlement 1607-20
Settlement of Jamestown 13 May 1607 See 973.5 Virginia history
Hudson’s voyage 1609 See also 974.7 N.Y. history

New England settlement 1620-43
Settlement of Plymouth 21 Dec. 1620 See 974.4 Mass. history
Pequot war 1636-37 Connecticut

New England confederacy 1643-64
United colonies of New England 19 May 1643

Conquest of New Netherlands 1664-89
King Philip’s war 1675-76 Massachusetts
War with eastern indians 1675-78 Maine
Sir Edmund Andros, governor of New England 1686-89

Early French wars 1689-1732
Witchcraft in New England See 133.4
King William’s war 1689-97
Sometimes called in Europe ‘War of the Palatinate’
Queen Anne’s war 1702-13
Known in Europe as War of the Spanish succession

Extension of English rule 1732-63
Settlement of Georgia 1732 See 975.8 Georgia history
King George’s war 1744-48
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.32 Diplomatic history
.33 Special campaigns and battles
.34 General military history
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.36 Celebrations
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3 Boston massacre 5 Mar. 1770
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5 Tax on tea 1767 Boston tea party 16 Dec. 1773
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3 British occupation of New York
4 American retreat  Sep.–Nov. 1776
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   Hubbardton, Vt  7 July
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3 Freeman's farm or Bemis Hights or Stillwater  19 Sep.
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   Forts Clinton and Montgomery  6 Oct.
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   Brandywine  11 Sep.
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7 Philadelphia taken by British  27 Sep.
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  Part taken by special states, specially the northern states. Under the number for each state use the book numbers A1–A19 for official publications, A2 for lists of revolutionary soldiers

1 New Hampshire
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- Conway cabal 1777–78
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- Capture of the Margareta June 12

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- Battle of Lake Champlain 11–13 Oct.
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- Bon Homme Richard and the Serapis 23 Sep.

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- Alliance and British brigs Atalanta and Trepassey 28 May

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- 361 Fourth of July See also 973.313
- 362 19th of April See also 973.3111
- 363 Evacuation day, New York See also 973.339
- 364
- 365 Monuments, memorials See also 713
- 366 Bunker Hill monument See also 973.3312
- 367 Washington's various headquarters
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- 371 English prisons
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- 372 American prisons
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- 375 Medical dep't; surgeons, nurses, etc.
- 376 Hospitals
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- 381 Treason and traitors See also 973.314 Loyalists, tories
- 382 Benedict Arnold
- 383 Charles Lee
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- 385 Secret servis, spies
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- 396 Humor
- 397 Pictures
  Paintings, drawings, caricatures, engravings, photographs, sculpture
- 398 Music
- 399 Maps
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Wayne’s expedition, Oct.–Nov. 1794, and treaty, 3 Aug. 1795
Jay’s treaty 28 Oct. 1795 See also 341.2
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.44 John Adams 4 Mar. 1797–4 Mar. 1801
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.46 Thomas Jefferson 4 Mar. 1801–4 Mar. 1809
Born 2 Apr. 1743; died 4 July 1826
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.48 Jefferson’s second term 4 Mar. 1805–4 Mar. 1809
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.47 James Madison 4 Mar. 1809–4 Mar. 1817
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4 American side in general
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5 South Atlantic states
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7 Events of 1815
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   Capture of Cyane and Levant by the Constitution 20 Feb.
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.526 War meetings, celebrations, anniversaries, etc.
   See note under 973.36
   See 369.14 societies of the war of 1812

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   Illinois admitted, 21st state 3 Dec. 1818 See 977.3
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   Alabama admitted, 22nd state 14 Dec. 1819 See 976.1
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   Alabama 11 Jan.
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   North Carolina 20 May
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<td>Siege of Corinth, Miss. 29 Ap.-10 June</td>
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<tr>
<td>1862</td>
<td>Battle of Pittsburg Landing, or Shiloh, Tenn. 6-7 Apr.</td>
</tr>
<tr>
<td>1862</td>
<td>Peninsular campaign, Va. 17 Mar.-2 Sep.</td>
</tr>
<tr>
<td></td>
<td>Siege of Yorktown, Va. 5 Ap.-4 May</td>
</tr>
<tr>
<td></td>
<td>Battle of Fair Oaks, or Seven Pines, Va. 31 May-1 June</td>
</tr>
<tr>
<td></td>
<td>Seven-days battles 25 June-1 July</td>
</tr>
<tr>
<td>1862</td>
<td>Northern Virginia, West Virginia, Maryland 17 Mar.-2 Sep.</td>
</tr>
<tr>
<td></td>
<td>Battle of Cedar Run, or Cedar (Slaughter) mountain, Va. 9 Aug.</td>
</tr>
<tr>
<td></td>
<td>Second battle of Bull Run or Manassas, Va. 30 Aug.</td>
</tr>
<tr>
<td>1862</td>
<td>Missouri, Arkansas, Kansas, Indian Territory, Dep't of N. W. 10 Ap.-20</td>
</tr>
</tbody>
</table>

973.715 Relations of special classes to the civil war
973.716 Clergy and churches. Colleges, students and graduates
973.717 Unionists in the south
973.718 Secessionists in the north
972 Diplomatic history: relations with other nations
973.721 Divided like 940; e. g. 973.722 Relations with England; 973.727 Russia
973.722 Diplomatic history of confederate states
973 Special campaigns and battles
973.731 General arrangement of topics is based on Official records of the Union and confederate armies, pub. by the U. S. The indexes of those volumes can be used as a minute subject index for subdivisions of 973.73
973.732 Campain of 1861
973.733 Campain of 1862
Campain of 1862 continued

1 South Carolina, Georgia, middle and east Florida 12 Ap. 1862—11 June 1863

2 West Florida, southern Alabama, southern Mississippi, Louisiana 12 May 1862—14 May 1863
Texas, New Mexico, Arizona 20 Sep. 1862—14 May 1863

3 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 10 June—31 Oct.

4 West Tennessee, northern Mississippi 10 June—20 Jan. 1863
Battle of Corinth, Miss. 3—4 Oct.

5 North Carolina, southeastern Virginia 20 Aug. 1862—3 June 1863

6 Northern Virginia, West Virginia, Maryland, Pennsylvania
3 Sep.—14 Nov.
Battle of South Mountain, Md. 14 Sep.
Battle of Antietam, or Sharpsburg, Md. 16—17 Sep.

7 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 1 Nov.—20 Jan. 1863
Battle of Stone river, or Murfreesboro, Tenn. 31 Dec. 1862—3 Jan. 1863

8 Northern Virginia, West Virginia, Maryland, Pennsylvania
15 Nov.—25 Jan. 1863

9 Battle of Fredericksburg, Va. 11—15 Dec.

Campain of 1863

1 Missouri, Arkansas, Kansas, Indian Territory, Dep't of Northwest
20 Nov. 1862—31 Dec. 1863

2 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 21 Jan.—10 Aug.
Middle Tennessee, or Tullahoma campaign 23 June—7 July
Morgan's Ohio raid 2—26 July

3 Mississippi, west Tennessee 20 Jan.—10 Aug.

4 Siege of Vicksburg, Miss. 19 May—4 July

5 Northern Virginia, West Virginia, Maryland, Pennsylvania
26 Jan.—3 June

6 Chancellorsville, Va. campaign 27 Ap.—6 May

7 West Florida, southern Alabama, southern Mississippi, Louisiana, Texas, New Mexico 14 May—31 Dec.
Siege of Port Hudson, La. 21 May—8 July

8 North Carolina, Virginia, La. 21 May—8 July

9 Battle of Gettysburg, Pa. 1—3 July
Campain of 1863, continued

1 South Carolina, Georgia, middle and east Florida 12 June–31 Dec.


2 North Carolina, Virginia, West Virginia, Maryland, Pennsylvania

4 Aug.–31 Dec.
Mine Run, Va. campaign 26 Nov.–2 Dec.

3 Kentucky, southwest Virginia, Tennessee, Mississippi, north Alabama, north Georgia 11 Aug.–19 Oct.


7 Kentucky, southwest Virginia, Tennessee, Mississippi, north Alabama, north Georgia 20 Oct.–31 Dec.

Knoxville, Tenn. campaign 4 Nov.–23 Dec.
Siege of Knoxville, Tenn. 17 Nov.–4 Dec.

8 Chattanooga-Ringgold campaign 23–27 Nov.
Battle of Lookout mountain, Tenn. 24 Nov.
Battle of Missionary ridge, Tenn. 25 Nov.

Campain of 1864

1 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama, north Georgia 1 Jan.–30 Ap.
Meridian, Miss. expedition 3 Feb.–6 Mar.

2 N. Carolina, Virginia, W. Va. Maryland, Pennsylvania

1 Jan.–30 Ap.
Engagement at Morton’s Ford, Va. 6–7 Feb.
Kilpatrick’s expedition against Richmond, Va. 28 Feb.–4 Mar.

3 Louisiana, trans-Mississippi 1 Jan.–30 June
Red river, La. campaign 10 Mar.–22 May
Camden, Ark. expedition 23 Mar.–3 May

4 South Carolina, Florida, Georgia coast 1 Jan.–13 Nov.
Charleston, S. C. harbor and vicinity
Florida expedition 5–22 Feb.
Engagement at Olustee or Ocean Pond, Fla. 20 Feb.

5 Southeastern Virginia, North Carolina 1 May–12 June
Engagement at Proctor’s Creek and Drewry’s Bluff or Fort Darling, Va. 12–16 May
Operations on the Bermuda Hundred, Va. front 17 May–2 June
Engagement at Petersburg, Va. 9 June

6 Battle of the Wilderness, Va. 5–7 May

7 Operations about Spottsylvania Court-House, Va. 8–21 May

8 Operations at and about Cold Harbor, Va. 31 May–12 June

9 Northern Virginia, West Virginia, Maryland, Pennsylvania

1 May–3 Aug.
Engagement at New Market, Va. 15 May
Lynchburg, Va. campain 26 May–29 June
Battle of the Monacocy, Md. 9 July
Action near Fort Stevens, D. C. 12 July
Campain of 1864, continued

1. Northern Georgia 1 May-8 Sep.
   Atlanta, Ga. campain
   Battle of Atlanta, Ga. 22 July

2. Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama
   north Georgia 1 May-13 Nov.
   Engagement at Harrisburg, near Tupelo, Miss. 14-15 July
   Operations in Mobile bay, Ala. 2-25 Aug.
   Engagement at Allatoona, Ga. 5 Oct.

3. Southeastern Virginia, North Carolina 13 June-31 July
   Richmond, Va. campain
   Assaults on the Petersburg lines 15-18 June
   Explosion of the mine and assault on the crater 30 July

4. Louisiana, trans-Mississippi 1 July-31 Dec.
   Price’s Missouri expedition 29 Aug.-2 Dec.

   Richmond, Va. campain
   Expedition to Fort Fisher, N. C. 7-27 Dec.

6. Northern Virginia, West Virginia, Maryland, Pennsylvania
   4 Aug.-31 Dec.

   Battle of Winchester, or the Opequon, Va. 19 Sep.

   Savannah, Ga. campain, or Sherman’s march to the sea
   15 Nov.-21 Dec.

9. Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama
   north Georgia 14 Nov.-23 Jan. 1865
   Battle of Franklin, Tenn. 30 Nov.
   Battle of Nashville, Tenn. 15-16 Dec.

Campain of 1865

1. Northern and southeastern Virginia, North Carolina, West Virginia,
   Maryland, Pennsylvania 1 Jan.-30 June

2. Richmond, Va. campain 1 Jan.-3 Apr.


   Battle of Five Forks, Va. 1 Apr.

5. North Carolina, South Carolina, southern Georgia, east Florida
   1 Jan.-30 June

6. Louisiana, trans-Mississippi 1 Jan.-30 June

7. Kentucky, southwestern Virginia, Tennessee, northern and central
   Georgia, Mississippi, Alabama, west Florida 1 Jan.-30 June
   Wilson’s raid from Chickasaw to Selma, Ala. and Macon, Ga.

8. Mobile, Ala. campain 17 Mar.-4 May

9. Pacific coast 1 Jan. 1861-30 June 1865
General military history

Northern side

1. Regular army
2. Volunteers, quotas
3. Bounties
4. Drafts
5. Negro troops
6. Special armies or corps
   - Army of the Cumberland
   - Army of the Potomac
   - 2d army corps
   - 19th army corps etc.
7. Special branches or services
   - Cavalry
   - Artillery
   - Engineers
   - Signal servis
   - Guerrillas
   - Commissariat
8. General orders
9. Regimental losses

Southern side

10. Guerrillas

Foren elements

Separated states and regimental histories

Divided like 940

A for official publications

A 1. Adjutant-general's reports
A 2. Lists of soldiers
B-D, General works on the part taken by the state in the conflict
E. Histories of cavalry regiments
F. Hevy artillery
G. Light artillery
J-L. Infantry
   - J regiments 1-99
   - K regiments 100-199
   - L regiments 200-299
   - The individual regiment is marked by adding its number after the letter;
   - E15, 15th regiment of cavalry; K49, 49th regiment of infantry. When there are more than 9 regiments 0 must be prefixed to the number for the 1st 10 regiments, J09, 9th regiment of infantry.
   - For the border states which also had regiments on the confederate side use similarly P-S
P. Cavalry
Q. Hevy artillery
R. Light artillery
S. Infantry

For those states which past ordinances of secession (see list under 973.713) reverse these numbers using E-L for confederate regiments and P-S for Union regiments.

Special numbers must be arranged for unnumbered and peculiarly numbered regiments and companies.
Naval history

During the civil war the navy was mainly used as an auxiliary to the army and nearly all naval actions are also described in connection with special campaigns and battles 973.73 and its subdivisions

Events of 1861

Hatteras inlet, N. C. 28 Aug. See also 973.7316
Port Royal, S. C. 7 Nov. See also 973.7319
Belmont, Mo. 7 Nov. See also 973.7315
Trent affair 8 Nov. See also 973.722

Events of 1862

Fort Henry, Tenn. 6 Feb. See also 973.7322
Roanoke island, N. C. 7–8 Feb. See also 973.7324
Fort Donelson, Tenn. 14 Feb. See also 973.7322
Monitor and Merrimac 8–9 Mar.
Island no. 10, Ky. 16 Mar.–8 Ap. See also 973.7325
New Orleans, La. 18 Ap.–1 May See also 973.7321
Memphis, Tenn. 6 June See also 973.7325

Events of 1863

Charleston, S. C. 7 Ap. See also 973.7331
Vicksburg, Miss. 16 Ap. See also 973.7343
Grand Gulf, Miss. 29 Ap. See also 973.7343

Events of 1864

Red river, La. expedition 10 Mar.–22 May See also 973.7363
Sassacus and Albemarle, Albemarle sound, N. C. 5 May See also 973.7365
Alabama and Kearsarge, off Cherbourg, France 19 June
Mobile bay, Ala. 5–22 Aug. See also 973.7372
Fort Fisher, N. C. 24 Dec. See also 973.7375

Events of 1865

Fort Fisher, N. C. 14–15 Jan. See also 973.7383

History of special squadrons or ships

Atlantic squadron
Gulf squadron

Confederate navy

Including the history of special squadrons or ships
Alabama
Shenandoah
Florida

Blockade and blockade running

Privateers

War meetings, celebrations, anniversaries, commemorations

See note under 973.36

For patriotic societies commemorating the civil war see 369.15–17

War meetings

Flags; presentations of flags; Battle-flag day

Monuments, memorials See also 718

Roll of honor List of ded For national cemeteries, see 719

Memorial day
973-77 Prisons, hospitals, charities, etc.
   .771 Southern prisons, prison life
      1 Andersonville
      2 Libby prison
   .772 Northern prisons
   .773 Exchange of prisoners, paroles
   .774
   .775 Medical dep't, surgeons, nurses For military surgery see 617.99
   .776 Hospitals, hospital sketches
   .777 Charities
      1 U. S. sanitary commission
      2 Sanitary fairs
         Soldiers homes, see 362.8
         Soldiers orphan asylums, see 362.7
         Freedmen's bureau, see 361
         Pensions, 351.5
   .778 Religious life, chaplains, revivals
      1 U. S. Christian commission See also 267.11
   .78 Personal narratives, vindication, secret servis
      Personal narratives when relating to some special battle or event should be classed
      according to their subject
   .781 Personal narratives, northern side
      Including volumes of G. A. R. papers and Loyal legion
   .782 Personal narratives, southern side
   .783 Army life
   .784 Southern army life, southern home life
   .785 Secret servis, spies
   .786 Southern side
   .79 Illustrative material
      See note under 973.39
   .791 Poetry
   .792 Drama
   .793 Fiction
   .794 Addresses
   .795 Sermons
   .796 Humor
   .797 Pictures
   .798 Music
   .799 Maps

.8 Later 19th century 1865-1901

.81 Andrew Johnson 15 Ap. 1865-4 Mar. 1869
   Born 29 Dec. 1808; died 31 July 1875
   13th amendment abolishing slavery, adopted 18 Dec. 1865
      See also 326.8 and 342.730
   Fenian invasion of Canada 31 May-2 June 1866 See also 971
   Nebraska admitted, 37th state 1 Mar. 1867 See 978.2
   Cession of Alaska by Russia 20 June 1867
   Impeachment of Pres. Johnson Mar.-May 1868 See 351.99
   14th amendment guaranteeing citizenship, adopted 28 July 1868
      See 342.739
973.82 Ulysses Simpson Grant 4 Mar. 1869-4 Mar. 1877
Born 27 Apr. 1822; died 23 July 1885
Treaty for annexation of Santo Domingo, signed 29 Nov. 1869; rejected by Senate 30 June 1870 See also 972.93
15th amendment guaranteeing suffrage, adopted 30 Mar. 1870 See 324.1 and 341.739
First provision for civil service reform 3 Mar. 1871 See also 351.6
Geneva arbitration award 14 Sep. 1872 See 341.6; 973.722; 973.757
Northwestern or San Juan boundary decision, Emperor William I of Germany, arbitrator 23 Oct. 1872
Crédit mobilier investigation Dec. 1872-Feb. 1873
Coinage act 12 Feb. 1873 See 332.47
Modoc war, California Nov. 1872-June 1873
Financial panic 19-30 Sep. 1873 See 332
Virginius incident Oct.-Dec. 1873
Whisky ring 1872-75 See 336.73
Civil rights act 1 Mar. 1875
Colorado admitted, 38th state 1 Aug. 1876 See 978.8
Centennial exposition, Philadelphia 10 May-10 Nov. 1876 See 606
Electoral commission Feb. 1877

.83 Rutherford Birchard Hayes 4 Mar. 1877-4 Mar. 1881
Born 4 Oct. 1822; died 17 Jan. 1893
Halifax fishery award 23 Nov. 1877
Bland silver act 28 Feb. 1878 See 332.47
Resumption of specie payment 1 Jan. 1879 See 332.5 and 336.73

.84 James Abram Garfield 4 Mar. 1881-19 Sep. 1881
Born 19 Nov. 1831; died 19 Sep. 1881
Chester Alan Arthur 19 Sep. 1881-4 Mar. 1885
Born 5 Oct. 1830; died 18 Nov. 1886
International cotton exposition 5 Oct.-31 Dec. 1881 See 606
Edmund act to suppress polygamy 22 Mar. 1882 See also 298
Pendleton civil service reform act 11 Jan. 1883 See 351.6

.85 Grover Cleveland 4 Mar. 1885-4 Mar. 1889
Born 18 Mar. 1839; died 24 June 1908
Act regulating the presidential succession 19 Jan. 1886 See 353.03
Mexican war pension act 29 Jan. 1887 See 351.5
Act creating Interstate commerce commission 4 Feb. 1887 See 385
Dependent pension bill vetoed 11 Feb. 1887 See 351.5
Centennial anniversary of Constitution, Philadelphia, Pa. 15-17 Sep. 1887
Act to establish the Labor dept 13 June 1888 See 331
Fisheries treaty, signed 15 Feb. 1888; rejected by Senate 21 Aug. 1888 See 333.9 and 341.273
Act to make Agriculture dept an executive dept 9 Feb. 1889 See also 630.6 and 353.8
Benjamin Harrison

Born 20 Aug. 1833; died 13 Mar. 1901
Opening of Oklahoma 2 Ap. 1889 See 976.6
North Dakota admitted, 39th state 2 Nov. 1889 See 978.4
South Dakota admitted, 40th state 2 Nov. 1889 See 978.3
Montana admitted, 41st state 8 Nov. 1889 See 978.6
Washington admitted, 42d state 11 Nov. 1889 See 970.7
International American conference 2 Oct. 1889–19 Ap. 1890
See 347.1
Idaho admitted, 43d state 3 July 1890 See 979.6
Wyoming admitted, 44th state 10 July 1890 See 978.7
Sherman silver act, repealing silver act of 1878 14 July 1890
See 332.47
McKinley tariff act 1 Oct. 1890 See 337.3
Controversy with Chile Oct. 1891–July 1892 See 983
Geary Chinese exclusion act 5 May 1892 See 332.251
Bering sea arbitration treaty 23 Aug. 1892
Hawaiian annexation treaty sent to senate, 15 Feb. 1898; withdrawn, 9 Mar. 1893 See 996.9

Grover Cleveland, second term

4 Mar. 1893–4 Mar. 1897
World’s Columbian exposition, Chicago 1 May–30 Oct. 1893
See 606
Decision of Bering sea court of arbitration 15 Aug. 1893
Voorhees silver act 1 Nov. 1893 See 332.47
Wilson tariff act 27 Aug. 1894 See 337.2
Income tax law decided unconstitutional by U. S. supreme court
8 Ap. 1895 See 336.24
U. S. commission on boundary between Venezuela and British Guiana appointed 1 Jan. 1896 See 987
Utah admitted, 45th state 4 Jan. 1896 See 979.2

William McKinley

4 Mar. 1897–14 Sep. 1901
Born 29 Jan. 1843; died 14 Sep. 1901
Dingley tariff act 24 July 1897
Annexation of Hawaii 7 July 1898
War with Spain
War declared 21 Ap. 1898
Protocol signed 12 Aug. 1898
Treaty of peace signed at Paris, 10 Dec. 1898; ratified, 11 April 1899
Political history; causes, results
Spanish misrule in Cuba
Destruction of battleship Maine 15 Feb. 1898
Acquisition of Philippines and Porto Rico
Diplomatic history
Special campaigns and battles
Siege of Santiago 22 June–17 July 1898
Battle of El Caney 1 July 1898
General military history
May be subdivided like 973.74
Naval history
Battle of Manila 1 May 1898
Sinking of the Merrimac 3 June 1898
Destruction of Cervera’s squadron 3 July 1898
War meetings, celebrations, anniversaries
Prisons, hospitals, etc.
Personal narratives
Illustrative materials
Early 20th century

14 Sep. 1901–4 Mar. 1909
Theodore Roosevelt
Born 27 Oct. 1858
4 Mar. 1909–4 Mar. 1913
William Howard Taft
Born 15 Sep. 1857
Woodrow Wilson
Born 28 Dec. 1856
4 Mar. 1913–
Northeastern or North Atlantic

New England

Maine

Admitted 15 Mar. 1820 as 23d state
Area 33,040 sq. mi. 16 counties
Population 742,377 in 1910
Sobriquets: Pinetree state, Polar Star state

Population in 1910

<table>
<thead>
<tr>
<th>County</th>
<th>Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroostook</td>
<td>74 664</td>
</tr>
<tr>
<td>Somerset</td>
<td>36 301</td>
</tr>
<tr>
<td>Piscataquis</td>
<td>19 887</td>
</tr>
<tr>
<td>Penobscot</td>
<td>85 285</td>
</tr>
<tr>
<td>Washington</td>
<td>42 905</td>
</tr>
<tr>
<td>Hancock</td>
<td>35 575</td>
</tr>
<tr>
<td>Waldo</td>
<td>23 383</td>
</tr>
<tr>
<td>Knox</td>
<td>28 981</td>
</tr>
<tr>
<td>Lincoln</td>
<td>18 216</td>
</tr>
<tr>
<td>Kennebec</td>
<td>62 863</td>
</tr>
<tr>
<td>Franklin</td>
<td>19 119</td>
</tr>
<tr>
<td>Oxford</td>
<td>36 256</td>
</tr>
<tr>
<td>Androscoggin</td>
<td>59 822</td>
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<tr>
<td>Sagadahoc</td>
<td>18 574</td>
</tr>
<tr>
<td>Cumberland</td>
<td>112 014</td>
</tr>
<tr>
<td>Portland</td>
<td>58 571</td>
</tr>
<tr>
<td>York</td>
<td>68 526</td>
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</tbody>
</table>

New Hampshire

Area 9341 sq. mi. 10 counties
Population 430,572 in 1910
Sobriquet: Granite state

Population in 1910

<table>
<thead>
<tr>
<th>County</th>
<th>Population</th>
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<tbody>
<tr>
<td>Coos</td>
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<tr>
<td>White mts</td>
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<tr>
<td>Grafton</td>
<td>41 652</td>
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<tr>
<td>Carroll</td>
<td>16 316</td>
</tr>
<tr>
<td>Belknap</td>
<td>21 304</td>
</tr>
<tr>
<td>Strafford</td>
<td>38 951</td>
</tr>
<tr>
<td>Rockingham</td>
<td>52 188</td>
</tr>
<tr>
<td>Merrimac</td>
<td>53 335</td>
</tr>
<tr>
<td>Sullivan</td>
<td>19 337</td>
</tr>
<tr>
<td>Hillsboro</td>
<td>126 072</td>
</tr>
<tr>
<td>Cheshire</td>
<td>30 659</td>
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</table>

Vermont

Area 9564 sq. mi. 14 counties
Population 355,956 in 1910
Sobriquet: Green Mt state

Population in 1910

<table>
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<tr>
<th>County</th>
<th>Population</th>
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<tbody>
<tr>
<td>Grand Isle</td>
<td>3 761</td>
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<tr>
<td>Franklin</td>
<td>29 866</td>
</tr>
<tr>
<td>Chittenden</td>
<td>42 447</td>
</tr>
<tr>
<td>Orleans</td>
<td>23 337</td>
</tr>
<tr>
<td>Essex</td>
<td>7 384</td>
</tr>
<tr>
<td>Caledonia</td>
<td>26 031</td>
</tr>
<tr>
<td>Lemoille</td>
<td>12 585</td>
</tr>
<tr>
<td>Washington</td>
<td>41 702</td>
</tr>
<tr>
<td>Addison</td>
<td>20 010</td>
</tr>
<tr>
<td>Orange</td>
<td>18 703</td>
</tr>
<tr>
<td>Windsor</td>
<td>33 681</td>
</tr>
<tr>
<td>Rutland</td>
<td>48 139</td>
</tr>
<tr>
<td>Bennington</td>
<td>21 378</td>
</tr>
<tr>
<td>Windham</td>
<td>26 932</td>
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</tbody>
</table>
Massachusetts

Area 8,366 sq. mi. 14 counties
Population 3,366,416 in 1910
Sobriquet: Bay state

- Berkshire 105,259
- Franklin 43,600
- Hampshire 63,327
- Hampden 231,369
- Worcester 399,687
- Middlesex 669,915
- Essex 436,477
- Suffolk 731,388

- Boston 670,585
- Norfolk 187,506
- Plymouth 144,337
- Bristol 318,573
- Barnstable 27,542
- Dukes 4,504
- Nantucket 2,962

Rhode Island

Area 1,448 sq. mi. 5 counties
Population 542,610 in 1910
Sobriquet: Little Rhody

- Providence 424,353
- Providence (city) 224,326
- Pawtucket 51,622
- Kent 36,378
- Bristol 17,602
- Newport 39,335

- Newport (city) 27,149
- Block Island

- Washington 24,942

Connecticut

Area 4,965 sq. mi. 8 counties
Population 1,114,736 in 1910
Sobriquet: Wooden Nutmeg state

- Litchfield 70,260
- Hartford 250,182
- Hartford (city) 98,915
- Tolland 26,459
- Windham 48,361
- New London 91,253
- Middlesex 45,637
- New Haven 337,282

- New Haven (city) 133,605
- Fairfield 245,322
974.7 New York

Area 49,204 sq. mi.  61 counties (excluding of Bronx)
Population 9,113,614 in 1910
Sobriquet: Empire state

<table>
<thead>
<tr>
<th>New York (city)</th>
<th>Population in 1910</th>
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<tr>
<td></td>
<td>4 766 883</td>
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<table>
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<tr>
<th>Vicinity of New York city</th>
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<tbody>
<tr>
<td>Long Island</td>
</tr>
<tr>
<td>Kings county</td>
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<tr>
<td></td>
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<tr>
<td>1 634 351</td>
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<table>
<thead>
<tr>
<th>Queens county</th>
<th>284 041</th>
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<tr>
<td>Nassau</td>
<td>83 930</td>
</tr>
<tr>
<td>Suffolk</td>
<td>96 138</td>
</tr>
<tr>
<td>Richmond</td>
<td>85 969</td>
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<tr>
<td>Westchester</td>
<td>283 055</td>
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<table>
<thead>
<tr>
<th>Bronx boro (and county)</th>
<th>430 980</th>
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| Rockland county | 46 873 |

<table>
<thead>
<tr>
<th>Southeast counties</th>
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<tbody>
<tr>
<td>Orange, West Point</td>
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<tr>
<td>Putnam</td>
</tr>
<tr>
<td>Dutchess</td>
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<tr>
<td>Ulster</td>
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<tr>
<td>Sullivan</td>
</tr>
<tr>
<td>Delaware</td>
</tr>
<tr>
<td>Green</td>
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<table>
<thead>
<tr>
<th>Catskill mts</th>
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<tbody>
<tr>
<td>Columbia</td>
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<table>
<thead>
<tr>
<th>Middle east counties</th>
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<tbody>
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<td>Rensselaer</td>
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<tr>
<td>Troy</td>
</tr>
<tr>
<td>Albany</td>
</tr>
<tr>
<td>Albany (city)</td>
</tr>
<tr>
<td>Schenectady</td>
</tr>
<tr>
<td>Schoharie</td>
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<tr>
<td>Montgomery</td>
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<tr>
<td>Fulton</td>
</tr>
<tr>
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<tr>
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<table>
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<th>Northern counties</th>
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<td>Warren</td>
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<tr>
<td>Lake George</td>
</tr>
<tr>
<td>Hamilton</td>
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<table>
<thead>
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<th>Adirondacks</th>
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<td>Clinton</td>
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<td>Lake Champlain</td>
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<tr>
<td>Franklin</td>
</tr>
<tr>
<td>St Lawrence</td>
</tr>
<tr>
<td>Jefferson</td>
</tr>
<tr>
<td>Thousand Islands</td>
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<tr>
<td>Lewis</td>
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<table>
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<tr>
<th></th>
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<table>
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<table>
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<th></th>
<th>24 849</th>
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<tr>
<td>45 717</td>
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### New York

<table>
<thead>
<tr>
<th>Region</th>
<th>County</th>
<th>Population in 1910</th>
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<tr>
<td><strong>North central counties</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Herkimer</td>
<td>56 356</td>
</tr>
<tr>
<td></td>
<td>Oneida</td>
<td>154 157</td>
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<tr>
<td></td>
<td>Utica</td>
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</tr>
<tr>
<td></td>
<td>Madison</td>
<td>74 419</td>
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<tr>
<td></td>
<td>Onondaga</td>
<td>137 249</td>
</tr>
<tr>
<td></td>
<td>Syracuse</td>
<td>71 664</td>
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<tr>
<td></td>
<td>Oswego</td>
<td>67 106</td>
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<tr>
<td></td>
<td>Cayuga</td>
<td>26 972</td>
</tr>
<tr>
<td></td>
<td>Seneca</td>
<td></td>
</tr>
<tr>
<td><strong>South central counties</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tompkins</td>
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<td>Cortland</td>
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<td>Chenango</td>
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<td></td>
<td>Otsego</td>
<td>47 216</td>
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<tr>
<td></td>
<td>Broome</td>
<td>78 809</td>
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<tr>
<td></td>
<td>Binghamton</td>
<td>48 443</td>
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<tr>
<td></td>
<td>Tioga</td>
<td>25 624</td>
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<td></td>
<td>Chemung</td>
<td>54 662</td>
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<tr>
<td></td>
<td>Elmira</td>
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<tr>
<td></td>
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<td></td>
<td>Yates</td>
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<tr>
<td></td>
<td>Steuben</td>
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<tr>
<td></td>
<td>Allegany</td>
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<tr>
<td></td>
<td>Livingston</td>
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<td></td>
<td>Ontario</td>
<td>52 286</td>
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<tr>
<td></td>
<td>Wayne</td>
<td>50 179</td>
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<tr>
<td></td>
<td>Monroe</td>
<td>283 212</td>
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<td></td>
<td>Rochester</td>
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<td><strong>Western counties</strong></td>
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<td></td>
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<td>Genesee</td>
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<tr>
<td></td>
<td>Wyoming</td>
<td>31 880</td>
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<td></td>
<td>Cattaraugus</td>
<td>65 919</td>
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<tr>
<td></td>
<td>Chautauqua</td>
<td>105 126</td>
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<td></td>
<td>Erie</td>
<td>528 985</td>
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<td></td>
<td>Buffalo</td>
<td>423 715</td>
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<tr>
<td></td>
<td>Niagara</td>
<td>92 036</td>
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<td></td>
<td>Niagara Falls</td>
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</table>
## Pennsylvania

Area 45,126 sq. mi. 68 counties
Population 7,665,111 in 1910
Sobriquet: Keystone state

### Southeast counties

<table>
<thead>
<tr>
<th>County</th>
<th>Population in 1910</th>
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<tbody>
<tr>
<td>Philadelphia (co. and city)</td>
<td>1,549,008</td>
</tr>
<tr>
<td>Montgomery</td>
<td>1,690,590</td>
</tr>
<tr>
<td>Chester</td>
<td>1,099,213</td>
</tr>
<tr>
<td>Delaware</td>
<td>1,117,906</td>
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<tr>
<td>Lancaster</td>
<td>1,167,029</td>
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<tr>
<td>Berks</td>
<td>1,183,222</td>
</tr>
<tr>
<td>Schuylkill</td>
<td>1,207,894</td>
</tr>
<tr>
<td>Dauphin</td>
<td>1,136,152</td>
</tr>
<tr>
<td>Lebanon</td>
<td>59,565</td>
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### Southeast counties

“Keystone state”

### Eastern counties

<table>
<thead>
<tr>
<th>County</th>
<th>Population in 1910</th>
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<tbody>
<tr>
<td>Bucks</td>
<td>76,530</td>
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<tr>
<td>Northampton</td>
<td>127,667</td>
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<tr>
<td>Wayne</td>
<td>29,236</td>
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<tr>
<td>Pike</td>
<td>8,033</td>
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<tr>
<td>Monroe</td>
<td>22,941</td>
</tr>
<tr>
<td>Carbon</td>
<td>52,846</td>
</tr>
<tr>
<td>Lehigh</td>
<td>118,832</td>
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### Northeast counties

<table>
<thead>
<tr>
<th>County</th>
<th>Population in 1910</th>
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<tbody>
<tr>
<td>Northumberland</td>
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<tr>
<td>Luzerne</td>
<td>343,186</td>
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<tr>
<td>Wilkesbarre</td>
<td>67,105</td>
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<tr>
<td>Susquehanna</td>
<td>37,746</td>
</tr>
<tr>
<td>Wyoming</td>
<td>15,509</td>
</tr>
<tr>
<td>Lackawanna</td>
<td>259,370</td>
</tr>
<tr>
<td>Scranton</td>
<td>129,867</td>
</tr>
<tr>
<td>Columbia</td>
<td>48,467</td>
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<tr>
<td>Montour</td>
<td>14,868</td>
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### Southeast central counties

<table>
<thead>
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<th>County</th>
<th>Population in 1910</th>
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<tbody>
<tr>
<td>York</td>
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<tr>
<td>Adams</td>
<td>34,319</td>
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<tr>
<td>Cumberland</td>
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<tr>
<td>Franklin</td>
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<td>Perry</td>
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<td>Mifflin</td>
<td>27,785</td>
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<td>Juniata</td>
<td>15,013</td>
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<tr>
<td>Union</td>
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<td>Snyder</td>
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### Northeast central counties

<table>
<thead>
<tr>
<th>County</th>
<th>Population in 1910</th>
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<tbody>
<tr>
<td>Lycoming</td>
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<td>Clinton</td>
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<td>Potter</td>
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<td>Tioga</td>
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<tr>
<td>Bradford</td>
<td>54,526</td>
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<td>Sullivan</td>
<td>11,293</td>
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Pennsylvania

<table>
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<th>974.86</th>
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<th>West Lycoming group</th>
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<tr>
<td>.861</td>
<td>Clearfield</td>
<td>93 768</td>
</tr>
<tr>
<td>.862</td>
<td>Jefferson</td>
<td>63 090</td>
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<tr>
<td>.863</td>
<td>McKeans</td>
<td>47 868</td>
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<tr>
<td>.864</td>
<td>Elk</td>
<td>35 871</td>
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<td>.865</td>
<td>Cameron</td>
<td>7 644</td>
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<td>.866</td>
<td>Warren</td>
<td>39 573</td>
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<td>.867</td>
<td>Forest</td>
<td>9 435</td>
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<td>Clarion</td>
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<th>87</th>
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<th>Bedford group</th>
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<tbody>
<tr>
<td>.871</td>
<td>Bedford</td>
<td>38 879</td>
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<td>.872</td>
<td>Fulton</td>
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<tr>
<td>.873</td>
<td>Huntington</td>
<td>38 304</td>
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<tr>
<td>.874</td>
<td>Blair</td>
<td>108 858</td>
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<tr>
<td>.875</td>
<td>Altoona</td>
<td>52 127</td>
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<tr>
<td>.876</td>
<td>Cambria</td>
<td>166 131</td>
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<tr>
<td>.877</td>
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<tr>
<td>.878</td>
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<td></td>
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<tr>
<td>.879</td>
<td>Somerset</td>
<td>67 717</td>
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<tr>
<th>88</th>
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<th>Westmoreland group</th>
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<tr>
<td>.881</td>
<td>Westmoreland</td>
<td>231 304</td>
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<td>Washington</td>
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<td>.883</td>
<td>Greene</td>
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<td>.884</td>
<td>Fayette</td>
<td>167 449</td>
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<tr>
<td>.885</td>
<td>Allegheny</td>
<td>1 018 763</td>
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<tr>
<td>.886</td>
<td>Pittsburg</td>
<td>533 005</td>
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<tr>
<td>.887</td>
<td>Allegheny City</td>
<td>Ancest to Pittsburg in 1907</td>
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<tr>
<td>.888</td>
<td>Armstrong</td>
<td>67 880</td>
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<td>.889</td>
<td>Indiana</td>
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<th>89</th>
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<tbody>
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<td>Beaver</td>
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<td>.893</td>
<td>Lawrence</td>
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<td>.896</td>
<td>Venango</td>
<td>56 359</td>
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<td>.897</td>
<td>Crawford</td>
<td>61 565</td>
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<tr>
<td>.898</td>
<td></td>
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<tr>
<td>.899</td>
<td>Erie</td>
<td>115 517</td>
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New Jersey

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<th>9</th>
<th>New Jersey</th>
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<tbody>
<tr>
<td></td>
<td>Area 8,224 sq. mi. (21 counties)</td>
</tr>
<tr>
<td></td>
<td>Population 2,537,167 in 1910</td>
</tr>
<tr>
<td></td>
<td>Soubriquet: Jersey blue state</td>
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<table>
<thead>
<tr>
<th>91</th>
<th>East Jersey</th>
<th>Population in 1910</th>
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<tr>
<td>.912</td>
<td>Northern counties</td>
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<tr>
<td>.921</td>
<td>Bergen</td>
<td>138 002</td>
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<tr>
<td>.922</td>
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<td></td>
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<tr>
<td>.923</td>
<td>Passaic</td>
<td>215 902</td>
</tr>
<tr>
<td>.924</td>
<td>Paterson</td>
<td>125 600</td>
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<tr>
<td>.925</td>
<td></td>
<td></td>
</tr>
<tr>
<td>.926</td>
<td>Hudson</td>
<td>537 231</td>
</tr>
<tr>
<td>.927</td>
<td>Jersey City</td>
<td>267 779</td>
</tr>
<tr>
<td>.928</td>
<td>Hoboken</td>
<td>70 324</td>
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</tbody>
</table>
## New Jersey

### Central counties
- Essex: 512,866
- Newark: 347,469
- Orange: 29,630

### Southern counties
- Union: 140,197
  - Elizabeth: 73,409
  - Rahway: 9,337
- Middlesex: 114,426
  - New Brunswick: 23,388

### West Jersey

#### Central counties
- Burlington: 66,565

#### Mercer
- Trenton: 125,657
  - Princeton: 96,815

#### Northern counties
- Hunterdon: 33,569
  - Raritan: 3,672

#### Morris
- 74,704

#### Sussex
- 26,781

#### Warren
- 43,187

#### Upper southern counties
- Gloucester: 37,368

#### Atlantic
- 71,894

#### Camden
- 142,029
  - Camden (city): 94,538

#### Lower southern counties
- Salem: 26,999
  - Salem City: 6,014
- Cumberland: 55,153
  - Bridgeton: 14,209

#### Cape May
- 19,145
## Southeastern or South Atlantic

Including general works on 'the South'.

### Delaware

<table>
<thead>
<tr>
<th>Area</th>
<th>Population 202,322 in 1910</th>
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<table>
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<tr>
<td>Wilmington</td>
</tr>
<tr>
<td>Kent</td>
</tr>
<tr>
<td>Sussex</td>
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### Maryland

<table>
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<th>Area 12,327 sq. mi.</th>
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<td>23 counties and Baltimore city</td>
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<td>Sobriquet: Old line state</td>
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#### Eastern Maryland

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<tr>
<td>Worcester</td>
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<tr>
<td>Somerset</td>
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<tr>
<td>Wicomico</td>
</tr>
<tr>
<td>Dorchester</td>
</tr>
<tr>
<td>Caroline</td>
</tr>
<tr>
<td>Talbot</td>
</tr>
<tr>
<td>Queen Anne</td>
</tr>
<tr>
<td>Kent</td>
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<tr>
<td>Cecil</td>
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#### Southern Maryland

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<tbody>
<tr>
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<tr>
<td>Calvert</td>
</tr>
<tr>
<td>Charles</td>
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<tr>
<td>Prince George</td>
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<tr>
<td>Anne Arundel</td>
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<table>
<thead>
<tr>
<th>Population 553</th>
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<tbody>
<tr>
<td>Annapolis</td>
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#### Baltimore (city)

<table>
<thead>
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<th>Population 485</th>
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<tr>
<td>Harford</td>
</tr>
<tr>
<td>Carroll</td>
</tr>
<tr>
<td>Howard</td>
</tr>
<tr>
<td>Montgomery</td>
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<tr>
<td>Frederick</td>
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<table>
<thead>
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<th>Population 759</th>
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<tr>
<td>Frederick (city)</td>
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#### North central

<table>
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<tr>
<th>Population 349</th>
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<tbody>
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<tr>
<td>Harford</td>
</tr>
<tr>
<td>Carroll</td>
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<tr>
<td>Howard</td>
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<tr>
<td>Montgomery</td>
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<table>
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<th>Population 673</th>
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<td>Frederick</td>
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#### Western

<table>
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<td>Washington</td>
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<td>Hagerstown</td>
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<table>
<thead>
<tr>
<th>Population 411</th>
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<tr>
<td>Allegany</td>
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<table>
<thead>
<tr>
<th>Population 839</th>
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<tbody>
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<td>Cumberland</td>
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<th>Population 105</th>
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### District of Columbia, Washington (city)

<table>
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<th>Area 70 sq. mi.</th>
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West Virginia

19 June 1863 admitted as 35th state  Area 24,780 sq. mi.
Population 988,800 in 1900  55 counties
Sobriquet: Panhandle state

OUTLINE

.41  Ohio valley
   .411 Northern Panhandle
   .412 Hancock  6,693
   .413 Brooke  7,219
   .414 Ohio  48,024
   .415 Wheeling  38,878
   .416 Marshall  26,444
   .417
   .418 Wetzel  22,880
   .419 Tyler  18,252

.42  Little Kanawha valley
   .421 Pleasants  9,345
   .422 Wood  34,452
   .423 Parkersburg  11,703
   .424 Ritchie  18,901
   .425
   .426 Wirt  10,284
   .427 Gilmer  11,762
   .428
   .429 Calhoun  10,266

.43  Kanawha valley
   .431 Jackson  22,987
   .432
   .433 Mason  24,142
   .434
   .435 Putnam  17,330
   .436 Roane  19,852
   .437 Kanawha  54,696
   .438 Charleston  11,099
   .439 Boone  8,194

.50  Central plateau
   .51  Monongahela valley
   .52  Central counties
   .53  Elk valley
   .54  Gauley valley
   .55  New River valley

.48  Alleghany crest
   .481 Cheat valley
   .482 Greenbrier valley
   .483 Eastern Panhandle
   .484 Potomac valley

Population in 1900

.412 Hancock  6,693
.413 Brooke  7,219
.414 Ohio  48,024
.415 Wheeling  38,878
.416 Marshall  26,444
.417
.418 Wetzel  22,880
.419 Tyler  18,252

.421 Pleasants  9,345
.422 Wood  34,452
.423 Parkersburg  11,703
.424 Ritchie  18,901
.425
.426 Wirt  10,284
.427 Gilmer  11,762
.428
.429 Calhoun  10,266

.431 Jackson  22,987
.432
.433 Mason  24,142
.434
.435 Putnam  17,330
.436 Roane  19,852
.437 Kanawha  54,696
.438 Charleston  11,099
.439 Boone  8,194
### West Virginia: Ohio valley

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| 1.463 | Elk valley           |
| 1.464 | Webster              |
| 1.465 | Braxton              |
| 1.466 | Clay                 |
| 1.467 | Gauley valley        |
| 1.468 | Nicholas             |

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<td>13 130</td>
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West Virginia

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<td>Randolph</td>
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<td><em>White Sulphur Springs</em></td>
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<td>.49</td>
<td>Eastern Panhandle</td>
<td>Potomac valley</td>
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<td>.491</td>
<td>Pendleton</td>
<td>9 167</td>
</tr>
<tr>
<td>.492</td>
<td>Grant</td>
<td>7 275</td>
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<td>.493</td>
<td>Hardy</td>
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<td>.498</td>
<td>Jefferson</td>
<td>15 935</td>
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</tbody>
</table>

.5 Virginia

| Population 3,061,612 in 1910 | 100 counties |
| *Sobriquets: Old Dominion, Mother of Presidents*

.6 North Carolina

| 20 May 1861 seceded; 25 June 1868 readmitted | Area 48,740 sq. mi. |
| Population 2,206,287 in 1910 | 98 counties |
| *Sobriquet: Old North state*

.7 South Carolina

| 20 Dec. 1860 seceded; 25 June 1868 readmitted | Area 30,495 sq. mi. |
| Population 1,515,400 in 1910 | 43 counties |
| *Sobriquet: Palmetto state*

.8 Georgia

| 19 Jan. 1862 seceded; 25 June 1868 readmitted | Area 58,725 sq. mi. |
| Population 2,609,121 in 1910 | 145 counties |
| *Sobriquet: Cracker state*

.9 Florida

| 1512 discovered by Ponce de Leon; 1565 settled by Spaniards; 22 Feb. 1819 | Area 54,561 sq. mi. |
| 30 Mar. 1822 organized as territory |
| 3 Mar. 1845 admitted as 27th state |
| 10 Jan. 1861 seceded; 25 June 1868 readmitted |
| Population 7,522,619 in 1910 | 47 counties |
| *Sobriquets: Everglade, Gulf state*
South Central or Gulf

.1 Alabama
1702 settled by French
14 Dec. 1819 admitted as 22nd state
11 Jan. 1861 seceded; 25 June 1868 readmitted
Population 2,138,993 in 1910
67 counties
Area 51,270 sq. mi.
Sobriquet: Land of Flowers

.2 Mississippi
7 Ap. 1798 organized as territory; 10 Dec. 1817 admitted as 20th state
9 Jan. 1861 seceded; 17 Feb. 1870 readmitted
Population 1,797,114 in 1910
79 counties
Area 46,362 sq. mi.
Sobriquet: Bayou state

.3 Louisiana
1699 settled by French
30 Ap. 1803 bought of France
1 Oct. 1804 organized as Territory of Orleans
8 Ap. 1812 Louisiana admitted as 18th state
26 Jan. 1861 seceded; 25 June 1868 readmitted
Population 1,656,388 in 1910
60 parishes
Area 45,409 sq. mi.
Sobriquets: Pelican state, Creole state

.4 Texas
20 Dec. 1835 independence from Mexico declared; 2 Mar. 1836 republic formed
29 Dec. 1845 annexed as 28th state
1 Feb. 1861 seceded; 30 Mar. 1870 readmitted
Population 3,896,542 in 1910
245 counties
Area 262,398 sq. mi.
Sobriquet: Lone Star state

.5 Indian Territory
Oklahoma
30 June 1834 assigned to Indians (part of Louisiana purchase)
Area 30,790 sq. mi.
Population 800,000 in 1906
Oklahoma organized as separate territory
2 May 1890
16 Nov. 1907 admitted as 46th state
Population 1,657,153 in 1910
77 counties

.6 Arkansas
4 June 1812 included in Missouri territory; 2 Mar. 1819 organized as Arkansas territory
15 June 1836 admitted as 25th state
6 May 1861 seceded; 22 June 1868 readmitted
Population 1,574,449 in 1910
75 counties
Area 52,525 sq. mi.
Sobriquet: Bear state

.7 Tennessee
1769 settled from Virginia; 14 Dec. 1784 organized by settlers as state of Franklin (or Frankland)
1 June 1796 admitted as 16th state
8 June 1861 seceded; 22 July 1866 readmitted
Population 2,184,789 in 1910
96 counties
Area 41,687 sq. mi.
Sobriquet: Big Bend state

.8 Kentucky
1775 settled by Daniel Boone; 20 May 1792 territory organized
1 June 1792 admitted as 15th state
Area 40,181 sq. mi.
Population 2,289,005 in 1910
119 counties
Sobriquet: Blue Grass state
## 977 North Central or Lake

### 1 Ohio

- **19 Feb 1803** admitted as 17th state
- **Area**: 40,760 sq. mi.
- **Population in 1900**: 4,157,545
- **88 counties**
- **Sobriquet**: Buckeye state

#### 11 Northwest counties

<table>
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<tr>
<th>County</th>
<th>1900 Population</th>
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<td>Defiance</td>
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<td>Henry</td>
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<tr>
<td>Wood</td>
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#### 12 Central north counties

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#### 13 Northeast counties

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Ohio

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### Southeast counties

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### Indiana

1809 Indiana territory with present boundaries established Dec. 1816, Indiana admitted as 19th state Area 36,350 sq. mi. Population 2,192,404 in 1890 92 counties Sobriquet: Hoosier state

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<td>Jefferson</td>
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<td>Decatur</td>
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<td>213</td>
<td>Jennings</td>
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## Indiana

### Southwest counties

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### West central counties

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### Central counties

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### East central counties

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### Indiana

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Illinois

1809 Illinois territory formed
3 Dec. 1818, Illinois admitted as 21st state Area 56,650 sq. mi.
Population 3,826,851 in 1990 102 counties
Sobriquet: Prairie state

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<td>.326 Kendall</td>
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<td>Grundy</td>
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<td>.334 Whiteside</td>
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<td>.335 Lee</td>
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<td>.337 Putnam</td>
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<td>.338 Henry</td>
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<td>.348 Fulton</td>
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Illinois

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| 1 Edwards            | 9,444   |
| 2 Wayne               | 23,806  |
| 3 Jefferson           | 22,590  |
| 4 Marion              | 24,341  |
| 5 Clay                | 16,772  |
| 6 Effingham           | 19,358  |
| 7 Fayette             | 23,367  |
| 8 Shelby              | 31,191  |
Illinois

Southwest counties

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Belleville

East St Louis

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<td>Union</td>
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<td>Massac</td>
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<tr>
<td>Pulaski</td>
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<tr>
<td>Alexander</td>
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Total

10,324
Michigan

1805 organized as separate territory
26 Jan. 1837, admitted as 26th state

Population 2,093,889 in 1890
Area 78,015 sq. mi.
84 counties

Sobriquets: Wolverine state, Lake state

**Lower peninsula**

<table>
<thead>
<tr>
<th>County</th>
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<td>Berrien</td>
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<tr>
<td>Kalamazoo</td>
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<td><strong>Kalamazoo (city)</strong></td>
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<td>St Joseph</td>
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<td>St Clair</td>
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<td><strong>West Bay City</strong></td>
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<td>Midland</td>
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## Michigan

### Southwest central counties

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<td>Mecosta</td>
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<td>Montcalm</td>
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<td>Ionia</td>
<td>32,801</td>
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<td>Kent</td>
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<td><strong>Grand Rapids</strong></td>
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<td>Muskegon</td>
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<td>Newaygo</td>
<td>20,476</td>
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<tr>
<td>Oceana</td>
<td>15,698</td>
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### Northcentral counties

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<td>Mason</td>
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<tr>
<td>Manistee</td>
<td>24,230</td>
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<td>Benzie</td>
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<td>Leelanaw</td>
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<tr>
<td>Grand Traverse</td>
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<tr>
<td>Kalkaska</td>
<td>5,160</td>
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<tr>
<td>Missaukee</td>
<td>5,048</td>
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<tr>
<td>Wexford</td>
<td>11,278</td>
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<tr>
<td>Lake</td>
<td>6,505</td>
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<td>Osceola</td>
<td>15,630</td>
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### Northeast central counties

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<td>Clare</td>
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<tr>
<td>Gladwin</td>
<td>4,208</td>
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<td>Arenac</td>
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<td>Iosco</td>
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<td>Roscommon</td>
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<td>Oscoda</td>
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<td>Alcona</td>
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### Northern counties

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<tr>
<td>Presque Isle</td>
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<td>Montmorency</td>
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<td>Otsego</td>
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<tr>
<td>Antrim</td>
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<tr>
<td>Charlevoix</td>
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<td>Cheboygan</td>
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<td>Emmet</td>
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Michigan

<table>
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<td>Mackinac</td>
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<td>Luce</td>
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<td>Alger</td>
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<td>Schoolcraft</td>
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<td>Delta</td>
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<tr>
<td>Menominee</td>
<td>33,639</td>
</tr>
<tr>
<td>Dickinson</td>
<td>Formed after 1890</td>
</tr>
<tr>
<td>Marquette</td>
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<tr>
<td>Ishpeming</td>
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<td>Baraga</td>
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<tr>
<td>Iron</td>
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<tr>
<td>Gogebic</td>
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<td>Ontonagon</td>
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<td>Houghton</td>
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<tr>
<td>Keweenaw</td>
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<td>Isle Royale</td>
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</table>

Wisconsin

1836 organized as territory
29 May 1848, admitted as 30th state Area 56,040 sq. mi.
Population 2,069,042 in 1900 71 counties
Sobriquet: Badger state

Northwest counties

<table>
<thead>
<tr>
<th>County</th>
<th>Population</th>
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<td>Douglas</td>
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<td>Superior</td>
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<tr>
<td>Bayfield</td>
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<tr>
<td>Burnett</td>
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<tr>
<td>Washburn</td>
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<td>Sawyer</td>
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<tr>
<td>Polk</td>
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<tr>
<td>Barron</td>
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</tr>
<tr>
<td>Rusk (formerly Gates)</td>
<td>Name changed from Gates to Rusk in 1905. Gates organized from Chippewa in 1901</td>
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Central north counties

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<td>Vilas</td>
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<tr>
<td>Price</td>
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<td>Oneida</td>
<td>8,875</td>
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<tr>
<td>Taylor</td>
<td>11,262</td>
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<td>Lincoln</td>
<td>12,269</td>
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<tr>
<td>Clark</td>
<td>25,848</td>
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<tr>
<td>Marathon</td>
<td>43,256</td>
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<tr>
<td>Wausau</td>
<td>12,354</td>
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</tbody>
</table>
Wisconsin

977-53 Northeast counties

.531 Forest 1 396
.532 Florence 3 193
.533 Marinette 30 822
.534 Marinette (city) 16 195

.535 Langlade 12 553
.536 Shawano 27 475
.537 Oconto 20 874
.538 Waupaca 31 615
.539 Outagamie 46 247

Appleton 15 685

.54 Central west counties

.541 St Croix 26 830
.542 Pierce 23 943
.543 Dunn 25 043
.544 Chippewa 33 937
.545 Eau Claire 31 892
.546 Eau Claire (city) 17 517

.547 Pepin 7 905
.548 Buffalo 16 765
.549 Trempealeau 23 114

.55 Central counties

.551 Jackson 17 466
.552 Wood 25 865
.553 Portage 29 483
.554 Monroe 28 103
.555 Juneau 20 629
.556 Adams 9 141
.557 Waushara 15 972
.558 Marquette 10 599
.559 Green Lake 15 797

.56 Central east counties

.561 Brown 46 359

Green Bay (city) 18 684

.562 Kewaunee 17 212
.563 Door 17 593
.564 Winnebago 58 225

Oshkosh 28 284

.565 Manitowoc (city) 11 786

.566 Calumet 17 078
.567 Manitowoc 42 261

.568 Sheboygan 59 345

Fond du Lac 47 589

Fond du Lac (city) 15 110

.569 Sheboygan (city) 22 962

.57 Southwest counties

.571 La Crosse 42 997

La Crosse (city) 28 805

.572 Vernon 28 351
.573 Crawford 17 286
.574 Richland 19 483
.575 Sauk 33 006
.576 Grant 38 881
.577 Iowa 23 114
.578 La Fayette 20 959
### Wisconsin

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<td>Dodge</td>
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<tr>
<td>.583</td>
<td>Dane</td>
<td>69 435</td>
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<tr>
<td>.584</td>
<td>Madison</td>
<td>19 164</td>
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<tr>
<td>.585</td>
<td>Jefferson</td>
<td>34 789</td>
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<td>.586</td>
<td>Green</td>
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<td>.587</td>
<td>Rock</td>
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<td></td>
<td><em>Janesville</em></td>
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<td><em>Beloit</em></td>
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<td>.589</td>
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<td>Southeast counties</td>
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<td>.593</td>
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<tr>
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<td>Kenosha</td>
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<td>.599</td>
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### Minnesota

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### Iowa

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### Northwest counties

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<tr>
<td>Dickin</td>
<td>7 995</td>
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<tr>
<td>Emmet</td>
<td>9 936</td>
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<tr>
<td>Sioux</td>
<td>23 337</td>
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<tr>
<td>O'Brien</td>
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<tr>
<td>Clay</td>
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<td>Palo Alto</td>
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<tr>
<td>Plymouth</td>
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<td>Cherokee</td>
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<td>Buena Vista</td>
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<td>Pocahontas</td>
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*Population in 1800*
## Iowa

### Central north counties

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<th>Pop.</th>
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<tbody>
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<tr>
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<tr>
<td>Worth</td>
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<tr>
<td>Mitchell</td>
<td>14</td>
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<tr>
<td>Hancock</td>
<td>13</td>
</tr>
<tr>
<td>Cerro Gordo</td>
<td>20</td>
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<tr>
<td>Floyd</td>
<td>17</td>
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<tr>
<td>Humboldt</td>
<td>12</td>
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<tr>
<td>Wright</td>
<td>18</td>
</tr>
<tr>
<td>Franklin</td>
<td>14</td>
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<tr>
<td>Butler</td>
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### Northeast counties

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<tr>
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<tr>
<td>Winnebique</td>
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<tr>
<td>Allamakee</td>
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<tr>
<td>Bremer</td>
<td>16</td>
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<tr>
<td>Fayette</td>
<td>29</td>
</tr>
<tr>
<td>Clayton</td>
<td>27</td>
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<tr>
<td>Blackhawk</td>
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<td>Waterloo</td>
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<td>Buchanan</td>
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<td>Delaware</td>
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<td>Dubuque</td>
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### Central west counties

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<tr>
<td>Ida</td>
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<tr>
<td>Sac</td>
<td>17</td>
</tr>
<tr>
<td>Calhoun</td>
<td>18</td>
</tr>
<tr>
<td>Monona</td>
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</tr>
<tr>
<td>Crawford</td>
<td>21</td>
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<tr>
<td>Carroll</td>
<td>20</td>
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### Central counties

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### Des Moines

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### Jasper

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### Other locations

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- Marshalltown: 11 544
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**Missouri**

7 Dec. 1812, organized as a territory  
10 Aug. 1821, admitted as 24th state  
Area 69,415 sq. mi.  
Population 3,293,335 in 1910  
114 counties and St Louis

**Sobriquets:** Bullion state, Iron state

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Western or Mountain
Including general works on "the West"

.1 Kansas
1841 explored by Spanish
30 May 1854 organized as separate territory, after successive inclusion in Louisiana and Missouri territories
29 Jan. 1861 admitted as 34th state Area 81,774 sq. mi.
Population 1,690,949 in 1910 105 counties
Sobriquet: Garden of the West

.2 Nebraska
30 May 1854 territory organized out of Missouri territory
1 Mar. 1867 admitted as 37th state Area 76,808 sq. mi.
Population 1,192,214 in 1910 92 counties
Sobriquet: Blackwater state

.3 South Dakota
Including works on Dakota as a whole
2 Nov. 1889 admitted as 40th state (Dakota ter. organized 2 Mar. 1861, divided into North and South Dakota)
Area 76,808 sq. mi.
Population 377,050 in 1910 68 counties
Sobriquet: Coyote state

.4 North Dakota
2 Nov. 1889 admitted as 39th state (Dakota ter., organized 2 Mar. 1861, divided into North and South Dakota)
Area 70,183 sq. mi.
Population 577,056 in 1910 49 counties
Sobriquet: Flickertail state

.5 Montana
26 May 1864 territory organized. Name means Mountain land
8 Nov. 1889 admitted as 41st state Area 146,201 sq. mi.
Population 376,053 in 1910 28 counties
Sobriquet: Treasure state

.6 Wyoming
25 July 1868 Wyoming territory organized
10 July 1890 admitted as 44th state Area 97,594 sq. mi.
Population 145,865 in 1910 15 counties
Sobriquet: Stubtoe state

.7 Colorado
28 Feb. 1861 Colorado territory organized
1 Aug. 1876 admitted as 38th state Area 103,658 sq. mi.
Population 799,024 in 1910 60 counties
Sobriquet: Centennial state

.8 New Mexico
2 Feb. 1848 ceded by Mexico
9 Sep. 1850 territory organized; enlarged 1853 by Gadsden purchase
6 Jan. 1912 admitted as 47th state Area 122,503 sq. mi.
Population 327,301 in 1910 26 counties

979 Pacific

.1 Arizona
2 Feb. 1848 ceded by Mexico, and enlarged by Gadsden purchase 1853
24 Feb. 1863 territory organized
14 Feb. 1912 admitted as 48th state Area 113,810 sq. mi.
Population 204,354 in 1910 13 counties

.2 Utah
2 Feb. 1848 ceded by Mexico
9 Sep. 1850 territory organized
4 Jan. 1896 admitted as 45th state Area 82,784 sq. mi.
Population 373,351 in 1910 27 counties
Sobriquet: Salt Lake state

.3 Nevada
2 Mar. 1861 territory organized
31 Oct. 1864 admitted as 36th state Area 109,821 sq. mi.
Population 81,875 in 1910 15 counties
Sobriquet: Silver state
**California**

Admitted 9 Sep. 1850, as 31st state  
Area 155,552 sq. mi.  
Population 2,377,549 in 1910  
58 counties

**Northern or Superior California**

Use 979.41 as a general number, including .41-.43

Sobriquet: The Golden state

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| .421 | Siskiyou                    | 18 801             |
| .423 | Modoc                       | 6 191              |
| .424 | Shasta                      | 18 920             |
| .426 | Lassen                      | 4 802              |
| .427 | Tehama                      | 11 401             |
| .429 | Plumas                      | 5 259              |

| .43 | North central counties      |                   |
| .431 | Glenn                       | 7 172              |
| .432 | Butte                       | 27 301             |
| .433 | Colusa                      | 7 732              |
| .434 | Sutter                      | 6 328              |
| .435 | Yuba                        | 10 042             |
| .426 | Sierra                      | 4 098              |
| .437 | Nevada                      | 14 955             |
| .438 | Placer                      | 18 237             |

**Central California**

Use 979.44 as a general number, including .44-.48

| .44 | East central counties       |                   |
| .441 | El Dorado                   | 7 492              |
| .442 | Amador                      | 9 086              |
| .443 | Alpine                      | 309                |
| .444 | Calaveras                   | 9 171              |
| .445 | Tuolumne                    | 9 979              |
| .446 | Mariposa                    | 3 956              |
| .447 | Yosemite                    |                   |
| .448 | Mono                        | 2 042              |

**Central counties**

| .45 |                           |                   |
| .451 | Yolo                       | 13 926             |
| .452 | Solano                     | 27 559             |
| .453 | Sacramento                 | 67 806             |
| .454 | Sacramento (city)          |                   |
| .455 | San Joaquin                | 50 731             |
| .456 | Stockton                   | 23 253             |
| .457 | Stanislaus                 | 22 522             |
| .458 | Merced                     | 15 148             |
California

West central counties  San Francisco group

San Francisco co. and city  416 912
Marin  25 144
Contra Costa  31 674
Alameda  246 131
   Alameda (city)  23 383
   Oakland  150 174
   Berkeley  40 434
San Mateo  26 585

Coast range counties, south

Santa Cruz  26 140
Santa Clara  83 539
   San Jose  28 946
San Benito  8 041
Monterey  24 146
San Luis Obispo  19 383

South central counties

Madera  8 368
Fresno  75 657
   Fresno (city)  24 892
Kings  16 230
Tulare  35 449
Inyo  6 974
Kern  37 715

Southern California

Southern counties

Santa Barbara  27 738
   Islands: San Miguel, Santa Rosa, Santa Cruz, Santa Barbara
Ventura  18 347
   Islands: Anacapa, San Nicholas
Los Angeles  504 131
   Islands: Santa Catalina, San Clemente
   Los Angeles (city)  319 198
San Bernardino  56 706
Orange  34 436
Riverside  34 696
San Diego  61 665
   San Diego (city)  39 578
Imperial  13 591

Oregon

14 Aug. 1848 territory organized
14 Feb. 1859 admitted as 33d state  Area 96,607 sq. mi.
Population 672,765 in 1910  34 counties
Sobriquet: Beaver state

Idaho

3 Mar. 1863 territory organized. Part of Louisiana purchase. First
included in Oregon, later in Washington territory
3 July 1860 admitted as 43d state  Area 83,534 sq. mi.
Population 325,594 in 1910  23 counties
Sobriquet: Evergreen state

Washington

2 Mar. 1853 territory organized; earlier, part of Oregon territory
11 Nov. 1889 admitted as 42d state  Area 66,336 sq. mi.
Population 1,141,990 in 1910  38 counties
Sobriquet: Evergreen state

Alaska

30 Mar. 1867 ceded by Russia
24 Aug. 1912 organized as territory  Area 590,884 sq. mi.
Population 64,355 in 1910
980 South America
981 Brazil
982 Argentina Patagonia
983 Chile
984 Bolivia
985 Peru
986 U.S. of Colombia New Granada Ecuador
987 Venezuela
988 Guiana
989 Paraguay Uruguay

990 Oceanica Polar regions
991 Malaysia
   .1 Borneo .2 Celebes .3 Moluccas or Spice islands .4 Philippine islands
992 Sunda
   .1 Sumatra .2 Java
993 Australasia
   .1 New Zealand .2 New Caledonia .3 Loyalty islands .4 New Hebrides .5 Solomon islands .6 New Britain, New Ireland .7 Admiralty islands
994 Australia
   .1 Western Australia .2 South Australia .3 Queensland .4 New South Wales .5 Victoria .6 Tasmania
995 New Guinea
996 Polynesia
   .1 Fiji, Friendly and Navigator islands .2 Society, Austral and Cook's islands .3 Marquesas islands and Low Archipelago .4 Minor Polynesian islands .5 Micronesia .6 Caroline and Pelew islands .7 Ladrone islands .8 Marshall and Gilbert islands .9 Hawaii
997 Isolated islands
998 Arctic regions
999 Antarctic regions
### INDEX ABBREVIATIONS

**Cutter forename abbreviations**  
Most common forenames of men are denoted by initial and colon; of women by initial and double period.

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**Other abbreviations**  
Exclusiv of common geographic abbreviations and others selfexplanatory; e.g., those made by omitting final -ment, -ogy, -rafy, -tion, -ture, obscure syllables, etc.

HOW TO USE THIS INDEX

Find the subject desired in its alphabetical place in the index. The number after it is its class number and refers to the place where the topic will be found, in numerical order of class numbers, on the shelves or in the subject catalogs. All class numbers are decimals; i. e., 571.34, Bronze remains, comes before 571.4, Iron age, and both of them before 572, Ethnology. Printed labels on the shelves or drawer fronts guide readily to the class number sought.

Under this class number will be found the resources of the library on the subject desired. Other subjects near the one sought may often be consulted with profit; e. g., Communism is the topic wanted and the index refers to 335.4, but 335, Socialism, and even the inclusive division 330, Political economy, also contain much on this subject. The reverse is equally true; the full material on Socialism can only be had by looking at its divisions 335.3, Fourierism, 335.4, Communism, etc. The topics which are thus subdivided are plainly marked in the index by heavy faced type.
THIS INDEX CONTAINS

in a single alphabet all the subjects named in the Complete Tables of the Decimal Classification together with their synonyms and such other useful topics as could be found in a selection of the largest dictionary and subject catalogs.

Where nothing is found under any number it shows that the library does not yet possess any book on that topic.

IT DOES NOT INCLUDE

all names of places, minerals, plants, etc., but gives only those used in the full tables and a farther selection of the most common and useful. It is not a biographical dictionary and gives no names of persons as biographical headings, but only such as appear in the tables in connection with some subject like Philosophy, Literature, or History.

To avoid swelling the index by frequent repetitions of long lists of sub-divisions under every country, language, etc., five general tables have been prepared; viz. 1, Geographical divisions; 2, Form divisions; 3, Languages; 4, Philological divisions; 5, Literatures. These are placed at the end and referred to from all such topics in the index. Explanations precede each index table.
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## Table 1.—Geographical Divisions.

The following subjects may all be divided geographically by adding the geographical numbers: L. e., 4, Europe; 5, Asia; 6, Africa; 7, North America; 8, South America; 9, Oceanica. These can be further subdivided as minutely as wished, like the history, 940-999, which see for full table; e. g.: 42, England; 73, United States; 944, New South Wales; 7471, New York City, etc.

The geographical numbers are formed by omitting initial 9 from the historical numbers given in tables 930-999, and these figures are simply affixed to the number given in the table below; e. g.: Atlases are numbered in the table below 912; in the historical tables France is numbered 944; omitting initial 9 and affixing the remaining figures, 44, to 912 gives 912.44, Atlases of France; New South Wales is 994,44; omit initial 9 and affix the 944 to 912 and the result is 912.944, Atlases of New South Wales. In the table below, Mints are 332, 491; in the historical tables England is 942; adding these together (omitting the 9) gives 332,492, Mints in England. Colleges are 378; N. Y. State, 974,71; add these together (omitting the 9) and the result is 378,747, Colleges in N. Y. State.

A number of unimportant topics, e. g. minor religious sects, which may be divided geographically, are omitted from this table.

| 373. | Academies, private. |
| 379. | " public. |
| 354. | Administration (except U. S.). |
| 923.5 | " biography. |
| 923.5 | Admirals' lives. |
| 922.3 | " " biography. |
| 911. | Ancient geography. |
| 283. | Anglican church. |
| 922.3 | " " biography. |
| 591.9 | Animals, geographical distribution. |
| 328. | Annals, legislative. |
| 913. | Antiquities, archaeology. |
| 922.3 | Archbishops' lives, Anglican. |
| 922.2 | " " Roman catholic. |
| 720.9 | Architecture, history of. |
| 923.5 | Army biography. |
| 709. | Art, history of. |
| 362.9 | Asylums. |
| 627.2 | Athenaeum libraries. |
| 912. | Atlases. |
| 923.3 | Bankers' lives. |
| 286.1 | Baptist, Calvinistic. |
| 286.2 | " Free will. |
| 286.3 | " Seventh day. |
| 922.6 | " lives. |
| 016.9 | Bibliography of history. |
| 015. | " special countries. |
| 920.0 | Biography of countries, collective; also religious biography 922.2 to 922.8, and biography of sociology 923.1 to 923.8. |
| 922.3 | Bishops' lives, Anglican and P. E. |
| 922.2 | " " Roman catholic. |
| 653.4 | Bookelling, history of. |
| 581.9 | Botany, geographical. |
| 284.2 | Calvinist church. |
| 922.4 | " " lives. |
| 923.3 | Capitalists' lives. |
| 922.2 | Cardinals' " |
| 282. | Catholic church. |
| 922.2 | " " biography. |
| 284.8 | " Old, church. |
| 361.9 | Charitable associations. |
| 283. | Church, Episcopal. |
| 922.3 | " " biography. |
| 27 | " history. |
| 027.3 | Circulating libraries. |
| 027.4 | City libraries, public. |
| 923.5 | Civil service biography. |
| 027.2 | Club libraries. |
| 367.9 | Clubs, social. |
| 332.49 | Coinage, history of. |
| 027.7 | College libraries. |
| 378. | Colleges. |
| 325. | Colonies. |
| 923.3 | Commerce, biography of. |
| 285.8 | Congregational church. |
| 922.5 | " " biography. |
| 342. | Constitutional law. |
| 922.4 | Continental Protestants' lives. |
| 655.6 | Copyright. |
| 343. | Criminal law. |
| 923.4 | Criminals' lives. |
| 614.12 | Deaths and death-rates. |
| 91 | Description, geographical. |
| 91 | Directories. |
| 591.9 | Distribution of animals, geog. |
| 549.9 | " " minerals " |
| 531.9 | " " plants " |
| 572.9 | " " races " |
| 284.1 | Dutch reformed church (except America). |
| 285.7 | Dutch reformed church (in America). |
| 922.4 | Dutch reformed church biography. |
| 27 | Ecclesiastical history. |
| 378. | Education, college. |
| 372.9 | " elementary. |
| 370.9 | " history of. |
373- Education, intermediate (private).
376.9 " of woman.
373- " private academies.
379- " public school.
923.7 Educators' lives.
372.9 Elementary education.
375.1 Emigrants.
923.1 Emperors' lives.
027.4 Endowed libraries.
373- " schools.
628.89 Engineering, sanitary.
283- Episcopal church.
922.3 " biography.
287.6 " Methodist, church.
922.7 " biog.
572.9 Ethnology.
027.1 Family libraries.
376.9 Female education.
336- Finance.
923- Financiers' lives.
349- Foreign law.
347- " relations.
354- " states, administration.
560.9 Fossils, geographical distribution.
027.9 Free news rooms.
027.4 " public libraries.
289.6 Friends or quakers.
922.8 " " biography.
027.0 General libraries, hist., reports, etc.
581.9 Geographical botany.
591.9 " dist. of animals.
560.9 " fossils.
549.9 " " minerals.
572.9 " " races.
91 Geography, description.
911- " historical.
912- " maps.
55 Geology.
724-3 Gothic revival, architecture.
724.4 " Victorian, "
027.5 " libraries.
352.0 " local.
923.2 Governors' lives.
724.2 Grecian revival, architecture.
614.09 Health, public.
911- Historical geography.
016.9 History, bibliography of.
362.9 Hospitals.
284.5 Huguenots.
922.4 " biography.
613.09 Hygiene.
325- Immigration.
339.9 Industrial legislation.
667- Institutes of technology.
368.9 Insurance.
373- Intermediate education.
923.4 Judges' lives.
923.1 Kings' lives.
923.4 Law biography.
347- " constitutional.
343- " criminal.
349- " foreign.
338.9 Legislation, industrial.
288- Legislative bodies and annals.
923.2 Legislators' lives.
027.0 Libraries, general, histories, rep., etc.
352.0 Local government.
284.1 Lutheran church.
922.4 " " biography.
912- Maps.
923.8 Merchants' lives.
287.6 Methodist episcopal.
922.7 " biography.
553.70 Mineral waters.
549.9 Minerals, geographical distribution.
332.49 Mints, history.
786.9 Music, history of.
015- National bibliography.
920.0 " " biography.
923.5 Naval "
724.6 Neoc-Grec architecture.
027.9 News rooms, free.
923.2 Nobles' lives.
560.9 Paleontology.
027.8 Parish libraries.
328- Parliamentary bodies.
329.9 Parties, political (except U. S.).
923.6 Philanthropists' lives.
912- Plans of cities, etc.
581.9 Plants, geographical distribution.
369.9 Political associations.
923.3 " economy, biography.
329.9 " parties (except U. S.).
923.2 " science, biography.
320.9 " " history of.
923.2 Politicians' lives.
312- Population, statistics of.
373- Preparatory schools.
285.1 Presbyterian church in America.
285.2 " " " Gr. Britain.
922.5 " " biography.
923.1 Presidents' lives.
655.1 Printing, history of.
365.9 Prisons.
027.1 Private libraries.
373- " schools.
027.2 Proprietary libraries.
283- Protestant Episcopal church.
922.3 " " " biog.
922.4 Protestants, Continental, lives.
614.09 Public health.
027.4 Public libraries.
379. " school system.
015. Publishers' lists.
655.4 Publishing, history of.
289.6 Quakers.
922.8 " lives.
724.5 Queen Anne architecture.
923.1 Queens' lives.
372.9 Races of men.
923.8 Railroad officials' lives.
027.4 Kate supported libraries.
027.9 Reading rooms, free.
364.9 Reformatory institutions.
284.1 Reformed church.
285.7 " (Dutch) church in Amer.
922.4 " " " biography.
327. Relations, foreign.
724.1 Renaissance architecture.
922.2 Roman Catholic church.
724.8 Romanesque revival, architecture.
923.1 Rulers, Chief, lives.
628.09 Sanitary engineering, history, etc.
284.7 Scandinavian church.
922.4 " " biography.
027.8 School libraries.
923.7 " officers' biography.
373. Schools, private.
379. " public, system.
508. Scientific travels.
366.9 Secret societies.
373. Seminaries, private.
923.5 Service, Civil, biography.
286.3 Seventh day baptist.
922.6 " " biography.
289.8 Shakers.
922.8 " biography.
653.09 Shorthand, history.
326.9 Slavery, history.
367.9 Social clubs.
366.9 Societies, secret.
027.2 Society libraries.
923.5 Soldiers' lives.
379. " " " libraries.
027.5 Statesmen's lives.
31. " of population.
312 Subscription libraries.
324. Suffrage.
027.8 Sunday school libraries.
289.4 Swedenborgians.
922.5 " biography.
284.7 Swedish church.
724.7 Swiss architecture.
923.7 Teachers' lives.
607. Technical schools.
724.7 Timber architecture.
923.4 Town libraries, public.
91 Travel, description.
508 " scientific.
341.2 Treaties, texts and history.
724.4 Tudor architecture.
288. Unitarian church.
922.8 " " biography.
289.1 Universalist church.
922.8 " " biography.
378. Universities, history, reports, etc.
027.7 University libraries.
724.4 Victorian Gothic, architecture.
922.4 Waldenses biography.
553.70 Waters, mineral.
376.9 Woman's education.
391.9 Zoology, geographical.
Table 2.—Form Divisions.

The form distinctions 01, Philosophy; 02, Compends; 03, Dictionaries; 04, Essays; 05, Periodicals; 06, Societies; 07, Study and Teaching; 08, Polygraphy, Collective Works; 09, History, can be used wherever needed if these numbers are not already employed with other significations. They have been printed in the full tables only where they seemed specially needed.

The following is an alphabetical list of these divisions, and the figures prefixed should be added to the number of the subject to be sub-divided; e.g. Disputations on Chemistry in general 540.4; Dictionaries of Mining 622.03.

| 06 | Academies.                           | 02 | Manuals.                        |
| 06 | Acts of societies.                   | 08 | Maxims.                         |
| 04 | Addresses.                           | 01 | Methods.                        |
| 06 | Associations.                        | 08 | Miscellaneous.                  |
| 02 | Charts. Tabular views. Compends.     | 07 | Museums.                        |
| 08 | Collected works.                     | 02 | Outlines.                       |
| 08 | Collections.                         | 04 | Papers.                         |
| 02 | Compends.                            | 05 | Periodicals.                    |
| 03 | Concordances.                        | 01 | Philosophy.                     |
| 03 | Cyclopedias.                         | 08 | Polygraphy.                     |
| 03 | Dictionaries.                        | 06 | Reports of societies.           |
| 04 | Discourses.                          | 05 | Reviews.                        |
| 04 | Disputations.                        | 07 | Schools.                        |
| 07 | Education.                           | 07 | Seminaries.                     |
| 03 | Encyclopedias.                       | 06 | Societies.                      |
| 04 | Essays.                              | 07 | Study.                          |
| 08 | Exhibitions.                         | 02 | Systems.                        |
| 08 | Extracts.                            | 07 | Teaching.                       |
| 09 | History.                             | 01 | Theories.                       |
| 04 | Lectures.                            | 04 | Tracts.                         |
| 04 | Letters.                             | 07 | Training schools.               |
| 03 | Lexicons.                            | 06 | Transactions.                   |
| 08 | Libraries, collections, series.      | 08 | Treatises.                      |
| 05 | Magazines.                           | 01 | Utility.                        |

Table 3.—Languages.

The table below includes all languages mentioned in the classification, except those in 494—499, not yet subdivided.

Any language in this table may be sub-divided like 420, English.

Any philological topic in the index may be transferred to another language by replacing the initial figures of the language, as found in this table, by those of the second language also found here; e.g., Syntax, English language, in the index is 425.2. In this table, English is 42 and French is 44; replacing the 42 by 44 gives 445.2 French syntax. Hebrew is 492.4, and Hebrew syntax is 492.452.

A third way to sub-divide the language is to prefix the language figures as given in this table to the philological numbers given in Table 4.

All three methods give the same result.

491.58 | Afghani.               | 491.69 | Basque.               |
492.8  | Amharic.               | 491.44 | Bengali.              |
429.   | Anglo Saxon.           | 491.86 | Bohemian.             |
492.7  | Arabic.                | 491.68 | Breton, Bas.          |
492.1  | Aramaic.               | 491.81 | Bulgarian.            |
491.54 | Armenian.              | 492.6  | Carthaginian.         |
491.68 | Armorician.            | 449.9  | Catalan.              |
492.19  | Assyrian.              | 492.2  | Chaldee.              |
491.52  | Avestan, Zend.         | 491.81 | Church Slavonic.      |
492.19  | Babylonian.            | 493.2  | Coptic.               |
491.52  | Bactrian, Old.         | 491.67 | Cornish.              |
491.68  | Bas Breton.            | 491.83 | Croatian.             |
492.19 Cuneiform.
491.65 Cymric Group.
491.66 " or Welsh.
439.8 Danish.
439.4 Deutsch, Platt.
439.3 Dutch.
493.1 Egyptian, Old.
42 English.
427.01 " Old.
491.61 Erse, Gadhelic group.
491.63 " Gaelic.
492.8 Ethiopic.
477.5 Etruscan.
439.6 Faroese.
439.3 Flemish.
44 French.
447.01 " Old.
439.2 Frisian.
491.61 Gadhelic Group.
491.63 Gaelic or Scotch.
43 German.
437.02 " Middle High.
437.01 " Old High.
439.9 Gothic.
48 Greek.
489. " Modern.
491.47 Gujarati.
492.4 Hebrew.
492.9 Himalaya.
491.43 Hindi.
491.1 Hindu languages.
491.43 Hindustani.
491.53 Huzwars.
439.6 Icelandic.
491.1 Indic Group.
491.62 Irish.
45 Italian.
492.4 Jewish.
491.83 Kroatian.
491.57 Kurdish.
47 Latin.
479. " Medieval.
491.93 Lettish.
491.92 Lithuanian.
491.93 Livonian.
439.3 Low Dutch.
479 " Latin.
491.64 Manx.
491.46 Marathi.
479. Medieval Latin.
437.02 Middle High German.
489. Modern Greek.
491.55 " Persian.
491.87 Moravian.
492.19 Nineveh Cuneiform.
439.6 Norse, Old.
439.8 Norwegian.
491.52 Old Bactrian.
493.1 " Egyptian.
427.01 " English.
447.01 " French.
437.01 " High German.
439.6 " Norse.
491.51 " Persian.
491.91 " Russian.
439.2 " Saxon.
491.45 Orissa.
491.56 Ossetic.
491.3 Pall.
491.42 Panjabil.
491.53 Pehlevi.
491.55 Persian, Modern.
491.51 " Old.
492.3 Pehiito.
492.6 Phenician.
439.4 Platt Deutsch.
491.89 Polabian.
491.85 Polish.
469. Portuguese.
491.2 Prakrit.
449. Provencal.
491.61 Prussian, Old.
491.58 Pushu.
459. Rhaeto-Romansch.
499. " Romanic.
459. Romanian.
459.9 Romansh.
491.7 Russian.
491.79 Ruthenian.
492.5 Samaritan.
491.2 Sanskrit.
429. Saxon, Angio-
439.2 " Saxon, Old.
439.5 Scandinavian languages.
491.03 Scotch or Gaelic.
491.82 Servian.
491.41 Sindhi.
491.48 Singalese.
491.51 Slavonic, Church.
491.87 Slovakian.
491.84 Slovenian.
491.88 Sorbian.
46 Spanish.
439.7 Swedish.
492.3 Syriac.
491.45 Uraia.
459. Wallachian.
491.66 Welsh.
491.52 Zend.
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### Table 5. — Literatures.

The form divisions of English literature: 1, Poetry; 2, Drama; 3, Fiction; 4, Essays; 5, Oratory; 6, Letters; 7, Satire and Humor; 8, Miscellany; may be used to sub-divide any of the languages in the following tables; and any division of English literature in the Index referring to this table may be used in sub-dividing another literature, by replacing the initial figures 82 (denoting English) by the figures of the 2d language as given in this table.

Thus Ballads, English literature in the Index are 821.04 and in this table Spanish is 86, therefore 861.04 is Spanish ballads; 891.7 is Russian and 891.7104 is Russian ballads.

While this minute division is possible, it is not expedient in all cases: e.g. Icelandic literature will contain little except in one or two of these divisions and a special arrangement similar to 829 Anglo-Saxon is much more convenient.

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Biscoe time and Olin biografy book numbers

Biscoe time numbers This scheme provides for arranging books by years from 1000 B.C—2000 A.D. Each number consists of a single initial letter followed by figures, and these again, if necessary, by letters. Any year of the 19th century, in which the greater proportion of our books belong, is designated by a letter and single figure. For the 3 preceding centuries a letter and 2 figures are needed, only incunabula and ancient writings requiring a letter and 3 figures. Few characters are wasted for the period when few books were written, as A, B, and C cover the years to 1499 A.D.

To D, E, F, which stand for centuries, 2 figures must be added, the number for a book published in 1652 being E52; in 1507, D07.

B, covering the first 10 centuries and C, covering 5 centuries, must be followed by 3 figures; thus a book issued in 1472 would be numbered C472.

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<td>1880-1889</td>
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<td>1900-1909</td>
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<td>R</td>
<td>1910-1919</td>
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</table>

American books take their numbers from the last copyright date; English and other foreign books, from date of publication: e.g. Dana’s Text book of geology, Phil. 1864, copyright ’63 has as its booknumber M3; edition 2 of the same book published and copyrighted in 1874 is N4. Weller’s Portable atlas of physical geography, London 1873, is N3.

A series or set takes its number from the first volume, even tho that may be lacking in the library set; e.g. Popular science monthly, v. 10-20, is M2, the date of v. 1 not of v. 10. When more than one volume in the same class calls for the same number, these numbers are differentiated by adding lower case letters; e.g. Bradbury & Emery’s Academic algebra, Sensenig’s Numbers universalized, and Well’s Short course in higher algebra all published in 1889 call for O9. Supposing them to come into the library in the above order, Bradbury would be O9; Wells O9a; Sensenig, O9b. In a closely clasé library additions to final subdivisions are seldom more than one a year. In the exceptional cases, use of a letter allows for 26 additions; the numbers are therefore neither long nor complicated.

If in doubt, an approximate date may be used and corrected later when full information is acquired. -Hunting down obscure dates consumes a
great deal of time and in the average library is not worth what it costs. L alone would mean a book published somewhere in the '50s of the present century, and F9 one of the last decade of the 18th (F09 being the mark for 1709). This occasional uncertainty is analogous to the case of anonymous and pseudonymous books in an author arrangement.

Dates B. C. may be treated in any one of the 3 ways suggested below. If numbers are given from date of writing or first publication there will be a few A books; but if from date of printing or copyright, none at all. Of the 3 ways below of treating dates B. C. the first is best:

1 Subtract the decade B. C. from 99 and use the resulting number, thus securing correct order with a shorter number than in 2. This approximate date is close enough, since exact year of writing is difficult to determine and the number of books in any subject in a single decade small.

Alternatives are:
2 Subtract the date B. C. from 1000 and use the resulting number, which will secure proper sequence.
3 Use actual B. C. date, since among so few books no great confusion would result from thus inverting the regular order.

Resulting numbers would then be:

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<td>45</td>
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Olin book numbers The best means of separating collective from individual biography is Olin book numbers. They are used exactly like Cutter author numbers; but as they translate all surnames of compilers into a followed immediately by figures, they precede the first Cutter number, Aar and thus automatically shelving biographical compilations before the cuttered individual lives; e. g. Strickland's Queens of England would be A84 (Olin number) and stand before a life of Queen Anne, An7 (Cutter number) whether last 920 or 923.r.
## Table of Olin numbers

From *Library journal* 18:144

<table>
<thead>
<tr>
<th>Name</th>
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<th>Name</th>
<th>Number</th>
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<td>Forr</td>
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<td>Ges</td>
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If Cutter-Sanborn tables (in which vowels like consonants are followed by figures) are used, mark collected biography with A followed by a shortend Cutter-Sanborn number for author or compiler, writing the initial letter of the Cutter-Sanborn number with a lower case letter; e.g. Strickland’s *Lives of the queens of England*, the Cutter-Sanborn number for Strickland being Sq17, would be marked As9 or Johnston’s *Leading American soldiers*, the number for Johnston being J73, would be Aj7
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