Technology (General)

Periodicals and societies. By language of publication

1. English
2. French
3. German
4. Other languages (not A-Z)

(5) Yearbooks
   see T1+

6. Congresses
   Industrial museums, etc. see T179+
   International exhibitions see T391+

7. Collected works (nonserial)

8. Symbols and abbreviations
   Dictionaries and encyclopedias
   General works
   Bilingual and polyglot
   Communication of technical information
   10.5 General works
       Information centers
   10.6 General works
       Special countries
       United States
   10.63.A1 General works
   10.63.A2-Z By region or state, A-Z
   10.65.A-Z Other countries, A-Z

10.68 Risk communication
10.7 Technical literature
10.8 Abstracting and indexing
   Language. Technical writing
   Cf. QA42 Mathematical language. Mathematical authorship

11. General works
11.3 Technical correspondence
11.4 Technical editing
11.5 Translating
11.8 Technical illustration
   Cf. Q222 Scientific illustration
   Cf. T351+ Mechanical drawing

11.9 Technical archives
   Industrial directories
   11.95 General works
      By region or country
      United States
   12. General works
   12.3.A-Z By region or state, A-Z
      Subarrange each country by Table T4a
   12.5.A-Z Other regions or countries, A-Z
      Subarrange each country by Table T4a

13. General catalogs. Miscellaneous supplies
    Cf. CB478 Technology and civilization

14.5 Social aspects
   Class here works that discuss the impact of technology on modern society
   For works on the role of technology in the history and development of civilization see CB478
   Cf. HM846+ Technology as a cause of social change

History
   Including the history of inventions

14.7 Periodicals, societies, serials, etc.
History -- Continued

15 General works
16 Ancient
17 Medieval
18 Modern
19 19th-20th centuries
20 20th century
   Including "technological wonders of the modern world"

Special regions or countries
   America. United States

21 General works
   Special divisions (United States)
   By region, A-Z
   e.g.
21.5.N4 New England
22.A-.W States, A-W
22.5.A-Z Cities, A-Z

Canada
23.A1 General works
23.A3-Z By region or province, A-Z
   Under each province:
   .x General works
   .x3A-.x3Z Special cities, A-Z

24 Latin America. West Indies (Table T4)
25 South America (Table T4)
26 Europe (Table T4)
27 Asia (Table T4)
27.3 Arab countries (Table T4)
28 Africa (Table T4)
   Australia
29.A1 General works
29.A3-Z By region or state, A-Z
   Under each state:
   .x General works
   .x3A-.x3Z Special cities, A-Z

29.5 New Zealand
30 Pacific Islands (Table T4)
31 Arctic regions
32 Primitive peoples
   see GN429+

33 Lost arts
35 Historical atlases of progress, invention, etc.
36 Women in technology
37 Industrial archaeology
   For local areas see T21+

Biography
   Including inventors
39 Collective
40.A-Z Individual, A-Z
   Class preferably with special subject in classes TA-TT

General works
44 Before 19th century
45 19th century and later
47 Elementary and popular works. Home educators
48 Juvenile works
49 Pocketbooks. Receipts. Formulas
General works
Pocketbooks. Receipts. Formulas -- Continued
Early to 1800 see T44

49.5
General special
Including international cooperation
Addresses, essays, lectures see T185

50
Technical measurement
Cf. TA329+ Engineering mathematics
Cf. TS172 Tolerances

50.5
Metric system in industry
Class metric system in special industries with the industry
Cf. QC90.8+ Metric system (General)

51
Tables
Cf. TA151 Engineering (General)
Cf. TA635 Structural engineering (General)
Cf. TH151 Building (General)
Cf. TH434+ Estimates, quantities and cost (Building)

(54)
Dangerous occupations. Industrial accidents
see HD7262+
Industrial safety. Industrial accident prevention
Cf. TA169.7 System safety
Cf. TS175 Safety of consumer products

55.A1
Periodicals, societies, congresses, etc.

55.A2-Z
General works

55.2
Study and teaching

55.25
Research

55.3.A-Z
Special topics, A-Z
Including special measures and appliances

55.3.A87
Authorship of safety manuals
55.3.A93
Awards programs
55.3.B43
Behavior modification
55.3.B56
Biophysics and industrial accidents
55.3.C6
Color as a safety measure
55.3.E44
Electronic alarm systems
55.3.E96
Explosion prevention and protection
55.3.F35
Falls (Accidents) prevention and protection
55.3.G3
Gas masks. Respirators
55.3.H3
Hazardous substances
Cf. HE5623+ Transportation by country
Cf. TD1020+ Waste disposal

55.3.H45
Heights. High altitudes
55.3.L5
Lifting and carrying
55.3.M35
Manipulators
55.3.M37
Marking
55.3.P67
Posters
55.3.P75
Protective clothing
Radiation environment procedures and equipment see TK9151.4+

55.3.S23
Safety helmets
55.3.S72
Statistical methods
Working at heights see T55.3.H45
Industrial engineering
Including management engineering and management science
Class here works on the solving of management problems concerned with design, improvement, and installation of complex industrial systems of men, materials, and equipment; employing the methods of operations research and engineering analysis and design, with stress on optimum use of resources. For applications in special fields, see the field
For works on the organization and operation of industrial institutions and business enterprises see HD28+
For wage and salary administration see HD4909+
For labor relations see HD6958.5+
For industrial psychology see HF5548.7+
For personnel management see HF5549+
For industrial safety see T55+
For engineering economy see TA177.4+
For production management see TS155+

55.4 Periodicals. Societies. Collections
55.45 Congresses
55.5 Dictionaries and encyclopedias
55.52 Symbols and abbreviations
55.54 Directories
55.6 History
55.7 Special countries
55.72.A-.W General works
55.74.A-Z Other American countries, A-Z
55.75.A-Z Europe. By country, A-Z
55.76.A-Z Africa. By country, A-Z
55.77.A-Z Asia. By country, A-Z
55.775 Australia
55.778 New Zealand

55.8 Biography
55.85.A-Z Collective
55.85 Individual, A-Z
55.9 General works
56 Early to 1930
56 Treatises
56.23 Pocketbooks, tables, etc.
56.24 General special
56.25 Addresses, essays, lectures
56.3 Industrial engineering as a profession. Industrial engineers. Management consultants
Study and teaching
56.4 General works
56.42 Research
56.8 Project management
57 Applied mathematics. Quantitative methods
57 General works
57.2 Problems, exercises, etc.
Probability theory
57.3 General works
Stochastic processes
Cf. TS160+ Inventory control
57.32 General works
57.33 Renewal theory
Industrial engineering
Applied mathematics. Quantitative methods -- Continued

Statistical methods
  Cf. HA154+ Statistical data
  Cf. TS156+ Quality control
  Cf. TS173 Reliability
  Cf. TS178.5 Line balancing

57.35  General works
57.36  Sampling theory
57.37  Experimental design
57.4   Schematic and graphic analysis
57.5   Data processing
  Cf. HF5548.125+ Business data processing

Operations research. Systems analysis
  Cf. QA402+ Analytical methods connected with physical problems

57.6.A1 Periodicals, societies, etc.
57.6.A2-Z General works

Simulation
  Cf. QA76.9.C65 Computer science
  Cf. TA343 Engineering mathematics

57.62  General works
57.64  Monte Carlo method
57.65  Stochastic processes
57.67  Process mining

Programming

57.7   General works
57.74  Linear programming
  General works
  Simplex model

57.76  General works
57.77  Allocation method
57.78  Transportation method
57.79  Stochastic programming

Nonlinear programming

57.8   General works
57.815 Convex programming
57.817 Nonconvex programming
57.82  Quadratic programming
57.825 Geometric programming
57.83  Dynamic programming
57.84  Heuristic programming
57.85  Network systems theory
  Including network analysis
  Cf. TS157.5+ Scheduling

57.9   Queueing theory. Waiting line problems
57.92  Game theory
  Cf. HD30.26 Management games
57.95  Decision theory
  Cf. HD30.23 Administrative decisions
57.97  Search theory
58.4   Managerial control systems
  Information technology. Information systems (General)
58.5   General works
Industrial engineering
  Information technology. Information systems (General) -- Continued
    Management information systems
      Cf. HD30.213 Industrial management
      Cf. HF5549.5.C6+ Communication in personnel management
      Cf. TS158.6 Automatic data collection systems (Production control)
  58.6
    General works
  58.62
    Decision support systems
      Cf. HD30.213 Industrial management
  58.64
    Management of information systems
    Production capacity. Manufacturing capacity
      Cf. HD69.C3 Economics
      Cf. TS176+ Manufacturing engineering
  58.7
    General works
  58.8
    Productivity. Efficiency
    Standardization
      Cf. TA368 Standards (Collections, indexes, etc.)
  59.A1
    Periodicals, societies, etc.
  59.A2-Z
    General works
  59.2.A-Z
    By region or country, A-Z
  59.4
    Mechanization
  59.5
    Automation
      Cf. HD45.2 Economics
      Cf. TA165 Engineering instruments
      Cf. TJ212+ Automatic control
      Cf. TJ1180+ Machine tools
      Cf. TS156.8 Process control
  59.6
    Industry 4.0
    Human engineering in industry. Man-machine systems
      General works
  59.7
    Fatigue aspects of man-machine systems
  59.72
    Working environment
      Cf. TS187 Plant utilities
    Work measurement. Methods engineering
      Including time and motion study, work study, etc.
  60.A2
    Periodicals
  60.A3-Z
    General works
    Work measurement
      General works
  60.2
    Production standards
      General works
  60.3
    Labor productivity
      Cf. HD57 Economics
    Time study
      General works
  60.4
    Standard times
  60.42
    Allowances
  60.45
    Setup time
    Predetermined motion time systems
      General works
  60.5
    Methods time measurement
  60.52
    Work sampling
    Methods engineering
      General works
  60.6
    Motion study
  60.7
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   Work measurement. Methods engineering -- Continued
60.8
   Work design. Job design
Technical education. Technical schools
   Cf. LB1594+ Industrial training in the elementary school
   Cf. LC1081+ Industrial education (Theory)
   Cf. LC2780.5 Industrial education of black people and African Americans
   Cf. T175+ Industrial research
   Cf. TT161+ Manual training
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64
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65.5.B5
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65.5.B54
   Blended learning
65.5.C3
   Case method
65.5.C65
   Computer-assisted instruction
65.5.M6
   Motion pictures
65.5.P7
   Programmed instruction
65.5.S47
   Service learning
65.5.S9
   Synthetic training devices
65.5.T4
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73.3
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73.7
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79.A-Z
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83.A-Z
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110.A-Z
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112.A-Z
Local, A-Z
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114.A-Z
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Austria
115
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116.A-Z
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117
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118.A-Z
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Denmark
119
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France
120.A-Z
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121
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Special countries

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122.A-Z
  Local, A-Z
  Germany
    Including West Germany

123
  General works

124.A-Z
  Local, A-Z
  East Germany

124.5
  General works
  Local
    see T124.A-Z

125
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126.A-Z
  Local, A-Z
  Holland

127
  General works

128.A-Z
  Local, A-Z

128.5
  Hungary
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129
  General works

130.A-Z
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131
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132.A-Z
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  Portugal

133
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134.A-Z
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  Russia

135
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136.A-Z
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  Spain

137
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138.A-Z
  Local, A-Z
  Sweden

139
  General works

140.A-Z
  Local, A-Z
  Switzerland

141
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142.A-Z
  Local, A-Z
  Turkey

143
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144.A-Z
  Local, A-Z

146.A-Z
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147.A-Z
  Other countries, A-Z

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  China

151
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152.A-Z
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153
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154.A-Z
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156.A-Z

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Iran. Persia

157

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158.A-Z

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(161-162)

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163.A-Z

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165

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166.A-Z

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166.5

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166.6.A-Z

Special divisions, A-Z

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167

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168.A-Z

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168.5

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169

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170.A-Z

Special divisions, A-Z

Special schools

Including technical departments of universities

Cf. TT167.A+ Manual training schools

American schools

171.A-Z

General. By name, A-Z

Under each school:

.xA1-.xA4 Official serials

.xA5-.xA7 Official monographs

.xA8-.xZ Nonofficial publications. By author, A-Z

172.A-Z

Correspondence schools. By name, A-Z

173.A-Z

Other schools. By city where located, A-Z

Expand Cutter number for city to provide alphabetical arrangement of schools, e.g.

173.A12-.A15 Aachen, Germany. Rheinisch-Westfälische Technische Hochschule Aachen

173.C516 Ch‘eng-tu, China. Dian zi ke ji da xue

173.L8-.L88 London, England

173.L832 Borough Polytechnic

173.L88 City of London Polytechnic

Technological change

For technological innovations in economic history see HC79.T4

For economic aspects of technological innovations see HD45

173.2

General works

Special countries

173.4

United States

173.5.A-Z

Other countries, A-Z

Inventions see T212

173.8

Technological innovations

174

Technological forecasting

174.2

Technology indicators
Technological change -- Continued

174.3 Technology transfer
   Cf. HF1429 Foreign licensing agreements

174.5 Technology assessment

174.7 Nanotechnology
   Industrial research. Research and development
   Cf. T56.42 Industrial engineering
   Cf. TA160+ Engineering
   Cf. TS171+ Product design

175 General works

175.5 Management. Organization

175.7 Research parks
   Special countries

176 United States

177.A-Z Others, A-Z

178.A-Z Special research laboratories. By name, A-Z
   Museums. Exhibitions of local societies

179 General works
   Special museums
      United States

180.A1 General works

180.A2-Z By city and museum, A-Z

183.A-Z Other regions or countries, A-Z
   Under each country:
      .x General works
      .x2A-.x2Z By city and museum, A-Z

185 Addresses, essays, lectures

Patents
   For patents pertaining to particular subjects, see the subject, e.g. TK7850 Patents in electronics
   Cf. HD69.B7 Brand name products

201 Periodicals, societies, congresses, etc.
   International patent conferences

203 General works. By date of conference

205 History and discussions of international agreements ("conventions") resulting from the conferences

207 Collected works (nonserial)
   Addresses, essays, lectures see T333

209 Dictionaries and encyclopedias

210 Patent literature

210.2 Translating. Translating services

210.5 Directories

211 Theory of patents

212 Inventors and inventions. How to invent
   Cf. T14.7+ History of inventions
   Cf. T173.8 Technology innovations
   History of patents
   By region or country
      For patent law, see class K
      America

221 General works (Table T5)
   North America

222 General works (Table T5)
   United States

223 General works (Table T5)

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<td>Special islands, A-Z</td>
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<td>South America</td>
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<td>Argentina (Table T5)</td>
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<td>Denmark (Table T5)</td>
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281  Norway (Table T5)
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295.S55  Slovenia (Table T6)
295.U95  Ukraine (Table T6)
295.Y8  Yugoslavia (Table T6)

Asia

299  General works (Table T5)
301  China (Table T5)
            For Hong Kong see T313.H85
302.5  Taiwan (Table T5)

South Asia

302.9  General works (Table T5)
        India

303  General works
304.A-Z  Local or special, A-Z
            Subarrange each by Table T6

304.5  Pakistan (Table T5)
304.65  Bangladesh (Table T5)
304.7  Sri Lanka, Ceylon (Table T5)
305  Japan (Table T5)
Patents
History of patents
By region or country
Asia -- Continued

306.5
Korea (Table T5)
Including South Korea

306.7
North Korea (Table T5)

307
Iran, Persia (Table T5)

309
Russia in Asia, Siberia (Table T5)

311
Turkey, Asia Minor (Table T5)

313.A-Z
Other divisions of Asia, A-Z

313.A3
Afghanistan (Table T6)

313.B54
Borneo (Table T6)

313.B7
Brunei (Table T6)

313.B8
Burma, Myanmar (Table T6)

313.C16
Cambodia (Table T6)

313.C9
Cyprus (Table T6)

313.G39
Gaza Strip (Table T6)

313.H85
Hong Kong (Table T6)

313.I55
Indonesia (Table T6)

313.I7
Iraq (Table T6)

313.I75
Israel (Table T6)

313.J6
Jordan (Table T6)

313.K85
Kuwait (Table T6)

313.L28
Laos (Table T6)

313.L4
Lebanon (Table T6)

313.M2
Macau (Table T6)

313.M318
Malaya (Table T6)

313.M32
Malaysia (Table T6)

313.N4
Nepal (Table T6)

313.P6
Philippines (Table T6)

313.Q36
Qatar (Table T6)

313.S33
Saudi Arabia (Table T6)

313.S53
Singapore (Table T6)

313.S6
Southeast Asia (Table T6)

313.S94
Syria (Table T6)

313.T48
Thailand (Table T6)

313.U54
United Arab Emirates (Table T6)

313.V5
Vietnam (Table T6)

313.W48
West Bank (Table T6)

313.Y45
Yemen (People's Democratic Republic) (Table T6)

313.5
Middle East (Table T5)

314
Arab countries (Table T5)

314.5
Islamic countries (Table T5)

Africa

315
General works (Table T5)

317
Egypt (Table T5)

319.A-Z
Other divisions of Africa, A-Z

319.A4
Algeria (Table T6)

319.A5
Angola (Table T6)

319.B57
Botswana (Table T6)

319.B85
Burundi (Table T6)

319.C17
Cameroon (Table T6)

319.C42
Central Africa (Table T6)

319.C43
Central African Republic (Table T6)
Patents
History of patents
By region or country
Africa

Other divisions of Africa, A-Z -- Continued

319.C75
Congo (Brazzaville) (Table T6)
Congo (Democratic Republic) see T319.Z3
Côte d'Ivoire see T319.I9

319.D3
Dahomey (Table T6)

319.D55
Djibouti (Table T6)

319.E18
East Africa (Table T6)

319.E19
Eastern Africa (Table T6)

319.E77
Eswatini (Table T6)

319.E8
Ethiopia (Table T6)

319.F82
French-speaking Equatorial Africa (Table T6)

319.F83
French-speaking West Africa (Table T6)

319.G23
Gabon (Table T6)

319.G45
Ghana (Table T6)

319.G92
Guinea (Table T6)

319.G94
Guinea-Bissau (Table T6)

319.I9
Ivory Coast. Côte d'Ivoire (Table T6)

319.K4
Kenya (Table T6)

319.L45
Lesotho (Table T6)

319.L49
Liberia (Table T6)

319.L74
Libya (Table T6)

319.M28
Madagascar (Table T6)

319.M3
Malawi (Table T6)

319.M34
Mauritania (Table T6)

319.M6
Morocco (Table T6)

319.M85
Mozambique (Table T6)

319.N53
Niger (Table T6)

319.N54
Nigeria (Table T6)

319.R45
Rhodesia, Southern. Zimbabwe (Table T6)

319.R9
Rwanda (Table T6)

319.S18
Sahel (Table T6)

319.S38
Senegal (Table T6)

319.S5
Sierra Leone (Table T6)

319.S59
Somalia (Table T6)

319.S6
South Africa (Table T6)

319.S64
Southern Africa (Table T6)

319.S68
Southwest Africa. Namibia (Table T6)

319.S73
Sub-Saharan Africa (Table T6)

319.S74
Sudan (Table T6)

(319.S87)
Swaziland (Table T6)

see T319.E77

319.T35
Tanzania (Table T6)

319.T64
Togo (Table T6)

319.T8
Tunisia (Table T6)

319.U4
Uganda (Table T6)

319.U66
Upper Volta (Table T6)

319.W48
West Africa (Table T6)

319.Z3
Zaire. Congo (Democratic Republic) (Table T6)

319.Z34
Zambia (Table T6)

Zimbabwe see T319.R45

Indian Ocean islands
Patents

History of patents

By region or country

Indian Ocean islands -- Continued

320
General works (Table T5)

320.5.A-Z
Special islands, A-Z

320.5.M38
Mauritius (Table T6)

320.5.R48
Réunion (Table T6)

Australasia

320.7
General works (Table T5)

Australia

321
General works (Table T5)

322.A-Z
Local or special, A-Z

Subarrange each by Table T6

322.5
New Zealand (Table T5)

322.7
Papua New Guinea (Table T5)

Pacific islands

323.A1
General works (Table T6)

323.A5-Z
Special islands, A-Z

Subarrange each by Table T6

323.2
Arctic regions (Table T5)

323.3
Antarctica (Table T5)

323.7
Developing countries (Table T5)

324
Designs and models of patents (General)

For special regions or countries see T221+

325
Trademarks

For special regions or countries, including trademarks for special products or industries of those regions or countries see T221+

333
Addresses, essays, lectures

339
Inventors’ manuals. Publications of patent solicitors

Including works on how to protect, patent, and merchandise inventions

342
Industrial design coordination

Mechanical drawing. Engineering graphics

Cf. QA501+ Descriptive geometry

Cf. T11.8 Technical illustration

Cf. TA337+ Schematic and graphic methods in engineering

Cf. TJ227+ Machine drawing

351
Periodicals, societies, etc.

351.3
Dictionaries and encyclopedias

351.5
Study and teaching

352
Drawing-room management and practice

Cf. T375+ Drawing-room equipment and supplies

353
General works

353.5
Juvenile works

354
Problems, exercises, etc.

355
Structural drawing

Cf. NA2685+ Architecture

357
General special

Including tinting, standards

359
Freehand drawing for technical purposes

361
Technical blackboard drawing

Projection

362
General works

363
Orthographic projection

Including axonometric and isometric projection
Mechanical drawing. Engineering graphics
Projection -- Continued

Oblique projection
Including cavalier and cabinet projection

Perspective projection
Cf. NC748+ Drawing, design, illustration (Fine arts)

Lettering
Cf. NK3600+ Alphabets, calligraphy and initials
Cf. NK8705+ Stonework
Cf. TT360.A1+ Signs

Drawing instruments and materials

Working drawings and their use. Blueprint reading
Cf. TA175 Engineering drawings
Cf. TR915+ Reproduction of drawings
For works on using presentation graphics software packages see P93.52+

Computer-assisted drafting. Computer graphics
Class here works on computer graphics used for technical applications, or for unspecified purposes
For special applications, see the subject, e.g., TR267-TR267.5 Digital photography; P93.52-.53 Presentation graphics software packages; N7433.8-N7433.85 Computer art; N7433.9 Multimedia art

Exhibitions. Trade shows
Including the great national and international exhibitions

Periodicals. Societies. Collections

Documents
Cf. T395+ History

Directories
History

General works
By region or country, A-Z

Organization, methods, classifications, etc.
Including display techniques

General works

Display technique. Pavilions

Special. By city, A-Z
e.g.

Chicago. World's Columbian Exposition, 1893

Special exhibitions
Aberdeen (Table T2)
Accra (Table T2)
Addis Ababa, 1995 (Table T2)
Adelaide, 1897 (Table T2)
Agra, 1867 (Table T2)
Exhibitions
Special exhibitions -- Continued

Agram see T992
Alexandria (Table T2)
Algiers (Table T2)
Alma-Ata (Table T2)
Amsterdam
  1859 (Table T2)
  1869 (Table T2)
  1883 (Table T2)
Antananarivo, Madagascar
  Arrange by date; subarrange each by Table T2
  1930 (Table T2)
  1984 (Table T2)
Athens (Table T2)
Atlanta
  1881 (Table T2)
  1895 (Table T2)
Baghdad (Table T2)
Bahia, 1872 (Table T2)
Baltimore (Table T2)
Barcelona (Table T2)
Basel (Table T2)
Batavia (Table T2)
Belgrad (Table T2)
Bergen, 1898 (Table T2)
Berlin (Table T2)
Birmingham (Table T2)
Bogota (Table T2)
Bolzano (Table T2)
Bombay (Table T2)
Bordeaux (Aquitaine) (Table T2)
Boston, 1883 (Table T2)
Brisbane
  1875 (Table T2)
  1988 (Table T2)
Brno
  Arrange by date; subarrange each by Table T2
Brussels
  Before 1910
  Arrange by date; subarrange each by Table T2
  1910 (Table T2)
  1935 (Table T2)
  1958 (Table T2)
Bucharest (Table T2)
Budapest
  1885 (Table T2)
  1896 (Table T2)
  1925 (Table T2)
Later
  Arrange by date; subarrange each by Table T2
Buenos Aires
  1875 (Table T2)
  1880 (Table T2)
  1882 (Table T2)
  1910 (Table T2)
Exhibitions

Special exhibitions

Buenos Aires -- Continued

Later

Arrange by date; subarrange each by Table T2

484.5

Buffalo, 1901 (Table T2)
Cadiz (Table T2)
Cairo (Table T2)
Calcutta (Table T2)
Calicut (Table T2)
Canton (Table T2)
Capetown (Table T2)
Caracas (Table T2)
Caserta, 1864 (Table T2)
Charleroi
1911 (Table T2)

Later

Arrange by date; subarrange each by Table T2

497

Charleston, 1901-1902 (Table T2)

Chicago

1873 (Table T2)
1883 (Table T2)
1893 (Table T2)
1933-1934 (Table T2)
1992 (Table T2)

Chittagong (Table T2)

Christiania see T797

Cincinnati

1870-1872 (Table T2)
1888 (Table T2)
1935 (Table T2)

Ciudad Trujillo (Table T2)

Cleveland

1909 (Table T2)

Later

Arrange by date; subarrange each by Table T2

Colombo, Ceylon (Table T2)
Constantinople (Table T2)
Copenhagen (Table T2)
Cordoba, 1871 (Table T2)
Cork, 1852 (Table T2)

Curitiba, 1875 (Table T2)

Dairen

Arrange by date; subarrange each by Table T2

Dallas, 1936-1937 (Table T2)
Delhi, India (Table T2)
Denver, 1882-1883 (Table T2)

Detroit

1892 (Table T2)

Later

Arrange by date; subarrange each by Table T2

Djakarta (Table T2)
Dnepropetrovsk, 1910 (Table T2)

Dresden (Table T2)

Dublin

1853 (Table T2)
Exhibitions
Special exhibitions
   Dublin -- Continued
      1865 (Table T2)
   Dusseldorf (Table T2)
   Dunedin
      1865 (Table T2)
      1925-1926 (Table T2)
   Edinburgh (Table T2)
   Enugu, 1997 (Table T2)
   Florence (Table T2)
   Fukuoka (Table T2)
   Geneva (Table T2)
   Genoa, 1892 (Table T2)
   Ghent
      Arrange by date; subarrange each by Table T2
   Glasgow
      1888 (Table T2)
      1938 (Table T2)
   Graz (Table T2)
   Guadalajara, 1880 (Table T2)
   Guatemala, 1878 (Table T2)
   Guimarães, 1884 (Table T2)
   Haarlem, 1861 (Table T2)
   Hague (Table T2)
   Hakodate (Table T2)
   Hamburg (Table T2)
   Hangchow
      Arrange by date; subarrange each by Table T2
   Hannover, 2000 (Table T2)
   Hanoi
      1902 (Table T2)
      Since 1902
      Arrange by date; subarrange each by Table T2
   Havana (Table T2)
   Hong Kong (Table T2)
   Indianapolis (Table T2)
   Izmir (Table T2)
   Jamestown, 1907 (Table T2)
   Johannesburg (Table T2)
   Kanazawa, Japan (Ishikawa Prefecture) (Table T2)
   Karachi
      Arrange by date; subarrange each by Table T2
   Khartoum
      Arrange by date; subarrange each by Table T2
   Kiev (Kyïv) (Table T2)
   Kimberley, 1892 (Table T2)
   Kingston, Jamaica, 1891 (Table T2)
   Kishinev (Table T2)
   Klagenfurt, 1838 (Table T2)
   Knoxville, 1982 (Table T2)
   Kobe-shi (Japan) (Table T2)
   Kōchi, Japan
      Arrange by date; subarrange each by Table T2
   Kure, Japan (Table T2)
   Kyïv see T653
Exhibitions
Special exhibitions -- Continued

670.8
Kyoto, Japan (Table T2)

671.3
Lagos (Table T2)

671.5
La Paz, Bolivia (Table T2)

671.8
Lausanne (Table T2)

673
Leeds (Table T2)

678
Leipzig (Table T2)

679
Liège
- 1905 (Table T2)
- 1930 (Table T2)
- Later
  - Arrange by date; subarrange each by Table T2

680
Lima (Table T2)

681
Lisbon (Table T2)

684
Liverpool, 1886 (Table T2)

687
Loanda (Table T2)

690
London
- 1851 (Table T2)
- 1862 (Table T2)
- 1871-1874 (Table T2)
- 1884 (Table T2)
- 1885 (Table T2)
- 1886 (Table T2)
- 1887

697
General works (Table T2)

697.3
East London (Table T2)

698
1906 (Table T2)

699
1908 (Table T2)

700
1910 (Table T2)

700.2
1912 (Table T2)

700.5
1917 (Table T2)

700.8
1928 (Table T2)

701
1929 (Table T2)

702
Later
  - Arrange by date; subarrange each by Table T2

703
Long Beach, Calif. (Table T2)

704
Los Angeles, Calif. (Table T2)

705
Louisville, Ky. (Table T2)
  - Arrange by date; subarrange each by Table T2

Lyons
710
1894 (Table T2)

711
Later
  - Arrange by date; subarrange each by Table T2

Madras
712
Arrange by date; subarrange each by Table T2

Madrid
714
Before 1891
  - Arrange by date; subarrange each by Table T2

715
1891 (Table T2)

716
Later
  - Arrange by date; subarrange each by Table T2

718
Malmö, 1896 (Table T2)

719
Manchester, 1887 (Table T2)

723
Manila (Table T2)

725
Mar del Plata (Table T2)
Exhibitions
Special exhibitions -- Continued
727
Marseilles (Table T2)
729
Medellin, Colombia (Table T2)
Melbourne
1861 (Table T2)
1866-1867 (Table T2)
1875 (Table T2)
1880-1881 (Table T2)
1888-1889 (Table T2)
Memphis (Table T2)
730
1861 (Table T2)
1866-1967 (Table T2)
1875 (Table T2)
1880-1881 (Table T2)
1888-1889 (Table T2)
Memphis (Table T2)
731
1861 (Table T2)
1866-1967 (Table T2)
1875 (Table T2)
1880-1881 (Table T2)
1888-1889 (Table T2)
Minneapolis (Table T2)
732
739
Memphis (Table T2)
742
Mexico (City) (Table T2)
744
Milan (Table T2)
745
Milwaukee (Table T2)
748
Minneapolis (Table T2)
750
Minsk (Table T2)
750.4
Mogadishu, Somalia
Arrange by date; subarrange each by Table T2
751
752
757
760
762
766
Nagasaki (Table T2)
766.5
Nagoya-shi (Japan) (Table T2)
768
Nancy (Table T2)
770
Nanking (Table T2)
773
Naples (Table T2)
774
Naruto-shi (Japan) (Table T2)
775
Nashville, 1897 (Table T2)
775.6
Neuchâtel, 2002 (Table T2)
New Orleans
1854 (Table T2)
1884-1885 (Table T2)
1885-1886 (Table T2)
Later
Arrange by date; subarrange each by Table T2
New York
1853-1854 (Table T2)
1855-1838
Arrange by date; subarrange each by Table T2
1939-1940 (Table T2)
Later
Arrange by date; subarrange each by Table T2
787
Niagara Falls, 1926 (Table T2)
788
Nicosia (Cyprus)
Arrange by date; subarrange each by Table T2
789
Novgorod (Table T2)
793
Odessa (Table T2)
796
Omaha, 1898 (Table T2)
796.5
Oporto (Table T2)
796.7
Osaka
Arrange by date; subarrange each by Table T2
797
Oslo (Christiania) (Table T2)
797.5
Otaru, Japan (Table T2)
798
Panama (Table T2)
Exhibitions
Special exhibitions
Panama -- Continued
Panama-Pacific exposition see TC781+
Paris
799
Before 1855
  Arrange by date; subarrange each by Table T2
800
  1855 (Table T2)
801
  1867 (Table T2)
801.5
  1875 (Table T2)
802
  1878 (Table T2)
803
  1889 (Table T2)
804
  1900 (Table T2)
805
  Later
    Arrange by date; subarrange each by Table T2
820
  Peking (Table T2)
Philadelphia
825
  1876 (Table T2)
826
  1877-1879 (Table T2)
826.3
  1926 (Table T2)
828
  Pisa, 1868 (Table T2)
830
  Pittsburgh (Table T2)
830.5
  Plovdiv (Table T2)
830.7
  Poona (Table T2)
831
  Port-au-Prince, 1949-1950 (Table T2)
831.3
  Port Louis, 1996 (Table T2)
832
  Portland, Maine (Table T2)
  Portland, Oregon
834
  1905 (Table T2)
834.2
  Later
    Arrange by date; subarrange each by Table T2
835
  Porto, 1865 (Table T2)
836
  Prague (Table T2)
836.8
  Pushkin (Russia) (Table T2)
837
  Quito (Table T2)
Rio de Janeiro
839
  Before 1875
    Arrange by date; subarrange each by Table T2
840
  1875 (Table T2)
841
  1876-1907
    Arrange by date; subarrange each by Table T2
843
  1908 (Table T2)
844
  Later
    Arrange by date; subarrange each by Table T2
845
  Rio Grande do Sul (Table T2)
850
  Rome (Table T2)
860
  St. Louis, 1904 (Table T2)
865
  St. Paul (Table T2)
868
  St. Petersburg (Table T2)
871
  San Antonio, Texas (Table T2)
San Diego
872
  1915 (Table T2)
872.3
  Later
    Arrange by date; subarrange each by Table T2
San Francisco
874
  1894 (Table T2)
Exhibitions
Special exhibitions
San Francisco -- Continued
1895-1914
Arrange by date; subarrange each by Table T2
1915. Panama-Pacific exposition see TC781+
Later
Arrange by date; subarrange each by Table T2
San José, 1886 (Table T2)
San Juan, Puerto Rico (Table T2)
Santiago de Chile
1872 (Table T2)
1873 (Table T2)
1875 (Table T2)
1942-1943 (Table T2)
1989
Sarajevo (Table T2)
Schwerin, 1861 (Table T2)
Seattle
1909 (Table T2)
Later
Arrange by date; subarrange each by Table T2
Seoul
1929 (Table T2)
1982 (Table T2)
Seville
1929-1930 (Table T2)
1992 (Table T2)
Shan-t'ou chuan ch'u, China (Table T2)
Shanghai (Table T2)
Shizuoka (Japan)
Arrange by date; subarrange each by Table T2
Singapore (Table T2)
Sofia (Table T2)
Spokane (Table T2)
Springfield, Mass. (Table T2)
Stockholm, 1897 (Table T2)
Strassburg (Table T2)
Stuttgart (Table T2)
Sydney, 1879-1880 (Table T2)
Taejŏn-si (Korea), 1993 (Table T2)
T'ai-pei (City) (Table T2)
Takayama-shi (Japan)
Arrange by date; subarrange each by Table T2
Tananarivo (Table T2)
Tbilisi, 1850 (Table T2)
Thessalonikē (Table T2)
Tokyo
Before 1912
Arrange by date; subarrange each by Table T2
1912-
Arrange by date; subarrange each by Table T2
Toluca, Mexico (Table T2)
Toronto (Table T2)
Toyama (Table T2)
Trieste (Table T2)
Exhibitions
Special exhibitions -- Continued

945
Tripoli (Table T2)

946
Tsukuba Kenkyū Gakuen Toshi (Japan) (Table T2)

947
Turin
1884 (Table T2)

948
Later
Arrange by date; subarrange each by Table T2

948.5
Ulm (Table T2)

948.7
Utsunomiya-shi (Japan) (Table T2)

949
Valladolid, 1850 (Table T2)

951
Valparaiso (Table T2)

953
Vancouver, B.C.
Arrange by date; subarrange each by Table T2

955
Venice (Table T2)

960
Vienna
1873 (Table T2)
1995 (Table T2)

967
Villanueva y Geltrú (Table T2)

975
Warsaw (Table T2)
Washington

983
1846 (Table T2)
Since 1846
Arrange by date; subarrange each by Table T2

986
Wellington, N. Z., 1885 (Table T2)

988
Wembley, Eng., 1924-1925 (Table T2)

990
Yokohama (Table T2)

991
Yŏsu-si (Korea), 2012 (Table T2)

992
Zagreb (Agram) (Table T2)

995
Zurich (Table T2)
Engineering (General). Civil engineering (General)

Periodicals and societies
1 English
2 French
3 German
4 Other languages (not A-Z)
5 Congresses
Exhibitions. Museums
6.A1 General works
6.A2-Z By region or country, A-Z
   Subarrange each country by Table T4b
7 Collected works (nonserial)
9 Dictionaries and encyclopedias
   Engineering literature see T10.7
11 Symbols and abbreviations
12 Directories of engineering companies and engineers

History
15 General works
16 Ancient
17 Medieval
   Modern
18 To 1800
19 1800-
21-127 Country divisions (Table T1a)
   Add country number in table to TA0
   Class here general historical and descriptive literature, reports on public works, etc.
   Cf. HD3881+ Economic aspects of public works

Biography
139 Collective
140.A-Z Individual, A-Z
   General works. Civil engineering, etc.
144 Early to 1850
145 1850-
147 Elementary textbooks
148 Popular works
149 Juvenile works
151 Handbooks, manuals, etc.
   Cf. TA332 Pocketbooks, tables, etc. (Engineering mathematics)
   Cf. TA685 Tables of structural shapes and sections of steel and iron
152 Laboratory manuals
153 General special
155 Addresses, essays, lectures
   Engineering as a profession. Engineers
      Including working conditions, ethics, etc.
157 General works
157.5 Women in engineering. Women engineers
   Industrial technicians
      Cf. TS155.4+ Manufacturing personnel
158 General works
158.3 Instrumentation technicians
Communication in engineering
158.5 General works
158.7 Computer network resources
      Including the Internet
   Technical education. Technical schools see T61+
159 Examinations, questions, etc.
Research

160 General works
Special countries
160.4 United States
160.6.A-Z Other regions or countries, A-Z

163 Sustainable engineering

Cf. TD1+ Environmental technology

Bioengineering

Cf. R856+ Medical engineering

164 General works
164.2 Bionics
Cf. Q317+ Cybernetics
164.4 Neuromorphics

165 Engineering instruments, meters, etc. Industrial instrumentation

Cf. TJ212+ Control engineering

165.5 Coordinate measuring machines

Human engineering

Class particular applications with the field of application, e.g. TL240+ Automobile design
Cf. QP360.7 Neuroergonomics
Cf. T59.7+ Industrial engineering

166 General works
167 Human-machine systems
167.5 Neurotechnology
Including neuroadaptive systems

168 Systems engineering

Cf. T57.6+ Systems analysis (Industrial engineering)

168.5 Reverse engineering

Systems reliability
Cf. TS173 Reliability of industrial products

169 General works
169.3 Accelerated life testing

System failures
Including failure analysis

169.5 General works
169.55.A-Z Special topics, A-Z
169.55.R57 Risk assessment
169.55.R66 Root cause analysis

169.6 Fault location
169.7 System safety
Cf. T55+ Industrial safety
Cf. TS175 Product safety

Environmental engineering

Cf. TD1+ Environmental technology
Cf. TH6014+ Environmental engineering in buildings

170 General works
171 Environmental testing
174 Engineering design
175 Drawings and designs
Cf. T351+ Mechanical drawing

177 Engineering models

Engineering economy
Cf. TS165+ Cost control. Value engineering
Cf. TS181+ Planning for machinery. Tool life

177.4 General works
177.7 Cost effectiveness. Benefits-to-costs ratios
178 Valuation and depreciation
Engineering economy -- Continued

Specifications

Cf. HD2365+ Competitive letting of contracts in industry
Cf. TH425 Construction of buildings

180
General works. Methods, etc.
181.A-Z
By region or country, A-Z
Including the official manuals of public works
183
Estimates, quantities, and costs
Cf. TH434+ Construction of buildings
185
Accounting for engineers

Management of engineering works
190
General works
190.5
Office systems and records
191
Inspection of workmanship
Cf. TH439 Building inspection
Cf. TS156.2+ Inspection of manufactures
192
Safety measures
194
Planning of operations. Critical path analysis

Engineering meteorology
197
General works
198
Industry and meteorology
Class special industries and applications with the field e.g. TH7392.M6 Heating of factories

Contractors’ operations and equipment. Contracting
Cf. TH11 Builders’ and contractors’ bulletins

201
Periodicals
210
General works

Engineering machinery, tools, and implements
Cf. TA735+ Excavating machinery
Cf. TH900+ Construction equipment in building construction
Cf. TS181+ Planning for machinery

213
General works
214
Directories
215
Trade and general catalogs, circulars, etc.

Consulting engineering
Cf. T56.3 Management consultants
Directories see TA12

216
General works
217.A-Z
Special companies. By name, A-Z
219
Forensic engineering
For image analysis see see TA1654

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Engineering law
see class K

Engineering mathematics. Engineering analysis
Cf. TA640+ Computational methods of structural engineering

329
Periodicals. Societies. Collections. Congresses
330
General works
331
General special
332
Pocketbooks, tables, etc.
Study and teaching
332.5
General works
333
Problems, exercises, examinations
335
Numerical methods. Approximations
Schematic and graphic methods
337
General works
338.A-Z
Special topics, A-Z
338.B6
Bond graphs
Engineering mathematics. Engineering analysis
   Schematic and graphic methods
   Special topics, A-Z -- Continued

338.F5
   Flowgraphs
338.G7
   Graph theory
338.N6
   Nomograms
340
   Probabilistic and statistical methods
   Mathematical models
      Cf. TA177 Engineering models

342
   General works
343
   Analogs. Simulation methods
      Cf. T57.62+ Industrial engineering

345
   Electronic data processing. Computer-aided engineering
   General works
345.5.A-Z
   Special systems, A-Z
345.5.A57
   ANSYS
345.5.A73
   Architecture Analysis and Design Language
345.5.A98
   AutoCAD Civil 3D
345.5.C38
   CATIA
345.5.C66
   COMSOL Multiphysics
345.5.D47
   DesignCAD
345.5.I2
   ICES
345.5.M16
   MESY
345.5.M38
   Mathematica
345.5.M42
   MATLAB
345.5.P37
   Parallel processing
      Including use of Charm++
345.5.R73
   RS/1
345.5.U53
   UNISURF CAD
347.A-Z
   Other specific mathematical aids in the solution of engineering problems, A-Z
347.A78
   Artificial intelligence
347.B69
   Boundary value problems
347.C3
   Calculus of variations
347.C54
   Closed circular ring problems
347.C6
   Combinatorial analysis
347.C64
   Complex analysis. Functions of complex variables
      Complex variables, Functions of see TA347.C64
347.C68
   Coupled problems
347.D4
   Determinants and matrices
347.D45
   Differential equations
347.D5
   Dimensional analysis
347.D52
   Dimensionless numbers
347.D57
   Distributed point source method
347.E96
   Evolutionary computation
347.F5
   Finite element method
347.F86
   Functional analysis
      Functions of complex variables see TA347.C64
347.G46
   Geometric methods
347.I5
   Integral equations
347.L5
   Linear algebras
      Matrices see TA347.D4
347.N46
   Nets
347.N56
   Nonlinear methods
347.N6
   Normal numbers
347.T4
   Tensor analysis
347.T7
   Transfer functions
Engineering mathematics. Engineering analysis
Other specific mathematical aids in the solution of engineering problems, A-Z -- Continued
347.V4
Vector analysis
348
Power spectra
Mechanics of engineering. Applied mechanics
For structural engineering see TA630+
For mechanics applied to machinery see TJ170+
Cf. TA405+ Mechanics of materials
349
Periodicals, societies, congresses, etc.
349.5
Dictionaries and encyclopedias
350
General works
350.2
Laboratory manuals
350.3
Addresses, essays, lectures
350.5
Study and teaching
350.7
Problems, exercises, examinations
351
Applied statics
Applied dynamics
352
General works
353
Contact mechanics
354
Impact
354.5
Penetration mechanics
355
Vibration in engineering
Cf. TA654+ Structural engineering
Cf. TG265 Bridges
Cf. TH153 Building (General)
Cf. TJ208 Vibrators
356
Vibration of vehicles
For vibration of specific vehicles, see the type of vehicle, e.g. TF Railroad vehicles; TL Motor vehicles
Applied fluid mechanics
Including fluid dynamics
Cf. TC160+ Technical hydraulics
Cf. TJ261 Thermofluid systems
Cf. TJ267 Theory of turbines
Cf. TJ853+ Fluidics and fluidic devices
357
General works
357.3
Problems, exercises, etc.
357.5.A-Z
Special topics, A-Z
357.5.A95
Axial flow
357.5.C38
Cavitation
357.5.C45
Cellular flows
Computational fluid dynamics see TA357.5.D37
357.5.C65
Convection
357.5.C68
Counterflows
357.5.D37
Data processing. Computational fluid dynamics
357.5.F55
Flow visualization
357.5.F58
Fluid-structure interaction
Fluid transients see TA357.5.U57
357.5.G47
Granular flow
Mathematics see QA901+
357.5.M43
Measurements
357.5.M59
Mixing
357.5.M84
Multiphase flow. Two-phase flow
357.5.P58
Planar laser-induced fluorescence
357.5.R44
Reduced gravity environments
Mechanics of engineering. Applied mechanics
   Applied fluid mechanics
      Special topics, A-Z -- Continued
357.5.S57
   Sloshing
357.5.T87
   Turbulence
   Two-phase flow see TA357.5.M84
357.5.U57
   Unsteady flow
357.5.V56
   Viscous flow
358
   Aerodynamics in engineering
      Cf. TL570+ Mechanics of flight
359
   Aerodynamics of vehicles
      For aerodynamics of specific vehicles, see the vehicle, e.g. TF Railroad vehicles; TL Motor vehicles

Acoustics in engineering. Acoustical engineering
   Class particular uses in the field of application, e.g. ML3805 Music; NA2800 Architectural acoustics;
      TK5981+ Electroacoustics
   Cf. TA418.84 Acoustical properties of materials
   Cf. TD891+ Noise control
   Cf. TH1725 Sound control in buildings
   Cf. TK5103.52 Acoustical telecommunication
365
   General works
365.5
   Anechoic chambers
367
   Ultrasonics in engineering
      Cf. TA417.4 Ultrasonic testing
367.5
   Lasers in engineering
368
   Standards (Collections, indexes, etc.)
      Class special collections of standards by subject in T-TX, e.g. TJ1330 Bolts and nuts
      Cf. T59+ Standardization

Materials of engineering and construction
   Including building materials
   For constitution and properties of matter see QC170+
401
   Periodicals. Societies. Collections
401.3
   Congresses
   Exhibitions
401.6.A1
   General works
401.6.A2-Z
   By region or country, A-Z
      Subarrange each country by Table T4b
402
   Dictionaries and encyclopedias
402.3
   Directories of materials scientists
402.5.A-Z
   Special regions or countries, A-Z
402.7
   Developing countries
403
   Treatises
403.2
   Popular works. Juvenile works
403.4
   Pocketbooks, tables, etc.
403.6
   General special
      Including transportation, quality control, etc.
403.8
   Addresses, essays, lectures
403.9
   Materials science as a profession
404
   Study and teaching
404.2
   Research
      Cf. TA416+ General engineering and testing laboratories
404.23
   Data processing
      Including computer simulation
404.25
   Communication in materials engineering
      Including materials databases
404.3
   Problems, exercises, etc.
Materials of engineering and construction -- Continued

404.5
Specifications and standards
Specific characteristics of materials
For chemical properties, see QD, TN, and TP
For electric and magnetic properties, see QC501-QC764; TK
Mechanical properties. Behavior of materials under applied forces

404.8
General works
Strength of materials. Mechanics of materials

405
General works

407
General special
Including stress analysis

407.2
Pocketbooks, tables, etc.

407.4
Problems, exercises, examinations

407.6
Study and teaching

409
Failure of materials. Fracture
Cf. TA417.6 Deformation of materials

409.2
Service life of materials

409.3
Strengthening mechanisms

410
Testing of materials (General and mechanical)
General works

412
Laboratory machines
Testing machines

413
General works

413.5
Strain gages

413.85
Wear-testing machines

416
General engineering and testing laboratories
Cf. TJ148 Mechanical engineering laboratories

416.5.A-Z
By region or country, A-Z

417.A-Z
Special laboratories. By name, A-Z

Nondestructive tests

417.2
General works
Acoustic emission testing see TA418.84

417.23
Microscopy

417.25
Radiographic examinations

417.3
Magnetic analysis

417.35
Electric analysis

417.36
Electromagnetic testing
Including eddy current testing

417.4
Ultrasonic testing

417.43
Optical characterization

417.45
Holographic testing

417.5
Infrared examinations

417.55
Penetrant inspection

417.6
Deformation of materials under stress
Behavior of materials under specific stresses, A-Z
For specific properties and tests, see the subject, e.g. TA418.14+ Plastic (inelastic)
properties and tests
Bending see TA417.7.F5

417.7.C6
Composite materials

417.7.C65
Compression

417.7.F5
Flexure

417.7.H53
High gravity

417.7.H55
High temperature

417.7.R43
Reduced gravity
Materials of engineering and construction
Specific characteristics of materials
Mechanical properties. Behavior of materials under applied forces
Testing of materials (General and mechanical)
Behavior of materials under specific stresses, A-Z -- Continued

417.7.S5  Shear
417.7.T4  Tension
417.7.T6  Torsion

Specific properties and tests
Elastic properties and tests
418  General works
418.12  Photoelasticity

Plastic (inelastic) properties and tests
418.14  General works
418.15  Photoplasticity
Ductile and brittle states
418.16  General works
418.17  Notch effect
418.18  Strain hardening
418.2  Viscous flow. Viscoelasticity
418.22  Creep behavior
Temperature-dependent properties and tests
Including effects of temperature on yield strength, viscous flow, etc.
Cf. TA418.32+ Thermal properties and tests

418.24  General works
418.26  Heat resistant materials. Refractory materials
Cf. TN677+ Metallurgical furnaces and refractory materials
418.28  Cold resistant materials

Time-dependent properties and tests
418.3  General works
Dynamic properties
418.32  General works
418.34  Impact strength
Endurance properties and tests
418.36  General works
418.38  Fatigue behavior
418.4  Mechanical wear
Cf. TA418.72 Friction properties
418.42  Hardness properties and tests
418.45  Hard materials

Physical properties
418.5  General works
Thermal properties and tests
418.52  General works
418.54  Thermal conductivity
Cf. TH1715+ Insulation and insulating materials
Thermal expansion
418.56  General works
418.58  Thermal stresses
418.59  Space environmental effects and tests
418.6  Radiation effects and tests
418.62  Optical properties and tests
418.64  Moisture content
Surface effects and tests
418.7  General works
Materials of engineering and construction

Physical properties

Surface effects and tests -- Continued

418.72
Friction properties
Cf. TJ1075+ Lubrication and friction

Corrosion properties. Deterioration
Cf. TA462 Corrosion of metals

418.74
General works

418.75
Corrosion-resistant materials

418.76
Protective coatings

Materials as particles, with tests

418.78
General works

418.8
Particle size determination

418.82
Porosity and denseness, with tests

418.84
Acoustical properties and tests
Cf. TH1725 Soundproof construction
Cf. TH1727 Acoustical materials

418.9.A-Z
Materials of special composition or structure, A-Z

418.9.A25
Ablative materials

418.9.A58
Amorphous substances

418.9.B73
Braided structures
Cf. TA418.9.C6 fibrous composites

418.9.C57
Coatings
Cf. TA418.76 Protective coatings
Cf. TA446 Cement coating
Cf. TA491 Metal coating
Cf. TP156.C57 Coating processes
Cf. TP934+ Paints
Cf. TP935.A2+ Protective coatings
Cf. TP1175.S6 Spraying with plastics
Cf. TS653+ Plastic coating on metals
Cf. TS699 Powder coating of metals

418.9.C6
Composite materials
Including fibrous composites
Cf. TA481+ Metallic composites

418.9.C7
Crystalline solids

418.9.F5
Fibers
For fibrous composites see TA418.9.C6
For textiles see TS1300

418.9.F6
Foamed materials

418.9.F85
Functionally gradient materials

418.9.G45
Gels
Including microgels and nanogels

418.9.I53
Inhomogeneous materials

418.9.L3
Laminated materials

418.9.L53
Lightweight materials

418.9.L54
Liquid crystals
Microgels see TA418.9.G45
Nanogels see TA418.9.G45

418.9.N35
Nanostructured materials

418.9.N48
Network materials

418.9.P6
Porous materials

418.9.R37
Rare earths

418.9.R4
Reinforced materials

418.9.S62
Smart materials

418.9.S64
SPM materials
Materials of engineering and construction
Materials of special composition or structure, A-Z -- Continued

418.9.T45 Thin films
418.9.T96 Two-dimensional materials
Special materials
For design and construction in special materials see TA663+
Nonmetallic materials
418.95 General works
Wood
Cf. TA666+ Wooden construction
Cf. TS800+ Lumber and woodwork
Cf. TS920+ Chemical processing of wood
419.A1 Periodicals, societies, congresses, etc.
419.A2-Z General works
419.5 Standards
420 Strength and testing of wood
Deterioration and preservation of wood
Cf. TC200 Deterioration of structures exposed to sea water
422 General works
Special destructive agents
Including their control
423 General works
Fungi. Decay
423.2 General works
Dry rot
423.3 Stain fungi
Insects
423.6 General works
423.63 Beetles
423.7 Termites
Preservation of wood
Cf. TT300+ Painting
424 General works
424.2 Testing
424.4 Special preservation methods
Including pressure-impregnation
424.6.A-Z Special preservatives, A-Z
424.6.C7 Creosote
424.6.F8 Fungicides
424.6.O4 Oil-soluble preservatives
424.6.R8 Rubber
424.6.S3 Salt
424.6.W3 Water-soluble preservatives
Masonry materials
Cf. TA670+ Construction
425 General works
Stone
426 General works
427 Strength and testing of stone
428.A-Z Special kinds of stone, A-Z
428.L5 Limestone
Cf. TA428.T73 Travertine
428.M3 Marble
428.T73 Travertine
430 Ceramic materials
Artificial materials
Materials of engineering and construction
   Special materials
      Nonmetallic materials
      Masonry materials
         Artificial materials -- Continued

431   General works
      Brick, tile, terra cotta

432   General works

433   Strength and testing of brick, etc.
      Cement, lime, mortar, etc.
         Cf. TP875+ Cement industries

434   General works

435   Strength and testing of cement, etc.
      Mortar
         General works

436   Strength and testing

437   Cement composites

Concrete
   Including Portland cement concrete
   Including mixing

439   General works

439.5  Recycling

440   Strength and testing
   Including concrete corrosion

441   Aggregates
   Including use of slag, clinkers, etc

442   Concrete and timber
   Special types of concrete

442.5  General works

443.A-Z  By cementing substance, A-Z
         Asphalt

443.C64  Colloidal concrete

443.P58  Polymers

443.R4   Resin

443.5   Air-entrained concrete

443.53  Autoclaved aerated concrete

Reinforced concrete

444   General works

444.5   Prestressed concrete
         Pre-tensioned prestressed concrete
         Post-tensioned prestressed concrete

445   Strength and testing
         Corrosion of reinforcing bars
         Reinforcing bar practice see TA683.42

445.7   Self-consolidating concrete

446   Shotcrete. Gunite. Cement guns

447   Pipes of cement, concrete, and clay
   Including drain tiles, culverts, etc.
   Cf. TP885.P5 Pipe manufacture

448   Plastic pipes
   Cf. TH6330 Plastic pipes in plumbing
   Cf. TP1185.P5 Manufacture of plastic pipes

450   Glass
   Including fiber glass

455.A-Z  Other nonmetallic materials, A-Z

455.A3    Abrasives
Materials of engineering and construction
   Special materials
   Nonmetallic materials
   Other nonmetallic materials, A-Z -- Continued

455.A34
   Adhesives
455.A6
   Asbestos
455.A62
   Asbestos substitutes
455.A63
   Ashes
      Cf. TA455.F55 Fly ash
455.A7
   Asphalt
455.B3
   Bamboo
455.B5
   Bituminous materials
455.B65
   Borides
455.C3
   Carbon
455.C43
   Ceramic materials (General)
      For ceramic materials for heat-engines see TJ255.5
      Cf. ML86 Music on ceramics
      Cf. NK3700+ Art industries
      Cf. R857.C4 Biomedical engineering
      Cf. RK655 Ceramics in dentistry
      Cf. TA430 Ceramic masonry materials
      Cf. TA479.6 Ceramic metals
      Cf. TK7871.15.C4 Electronics
      Cf. TP785+ Chemical technology
      Cf. TP825+ Ceramics, Architectural
      Cf. TT919+ Pottery craft
455.C45
   Chromic materials
455.C55
   Clay minerals
455.C6
   Cork
455.C65
   Corundum
455.E4
   Elastomers
455.E5
   Enamels
455.E6
   Epoxy resins
455.F3
   Faolite
455.F5
   Fiber glass see TA450
455.F54
   Fluorine compounds
455.F55
   Fly ash
      Cf. TE210.5.F55 Soil stabilization materials
455.G44
   Geosynthetics
455.G65
   Graphene
455.G7
   Graphite
455.G73
   Gravel
455.G9
   Gypsum
455.L3
   Laterite
455.L6
   Loess
455.M5
   Mica
455.N5
   Nitrides
455.P4
   Peat
455.P45
   Perlite
455.P46
   Perovskite
455.P49
   Plant fibers
   Plastics
455.P5
   General works
455.P55
   Reinforced plastics
   Polymers
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Special materials
Nonmetallic materials
Other nonmetallic materials, A-Z
Polymers -- Continued
455.P58
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455.P583
Inorganic polymers
Including geopolymers
455.P585
Shape memory polymers
455.R4
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455.R8
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455.S3
Sand
455.S35
Semimetals
455.S4
Shale
455.S43
Shells (Sea shells)
455.S46
Silicates
455.S5
Slag
455.S6
Soil
455.S8
Straw
455.S84
Stucco
455.S93
Sulfur
455.T3
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455.V4
Vermiculite
455.W3
Wallboard
Metals
Cf. TA684+ Metal construction
Cf. TN689+ Metallography
459
General works
460
Strength and testing
461
Specifications
462
Corrosion and protection against corrosion
Cf. TS653+ Metal finishing
Cf. TT300+ Industrial and structural painting
463
Liquid metals
Cf. QC173.4.L56 Physics
Iron and steel
Cf. TN701.482+ Metallurgy
Cf. UG408+ Iron and steel for land defenses
464
General works
465
Strength and testing
466
Specifications
467
Corrosion and protection against corrosion
For stray currents from electric traction see TF912
For electrolytic corrosion of underground lines see TK3255
Wrought iron
Including specifications
469
General works
470
Strength and testing
Steel
Including specifications
472
General works
473
Strength and testing
Cast iron
Including specifications
474
General works
Materials of engineering and construction
Special materials
Metals
Iron and steel
Cast iron -- Continued
Strength and testing
Iron and steel alloys
General works
479.A-Z Special, A-Z
479.A4 Aluminum alloys
479.A88 Austenitic steel
479.B6 Boron steel
479.B7 Bulat steel
479.C37 Carbon steel
479.C5 Chromium steel
479.C7 Copper steel
Ferritic steel see TA479.S7
479.H43 Heat resistant steel
Cf. TA485 Heat resistant alloys
479.L54 Lightweight steel
Maraging steel see TA479.N5
479.N5 Nickel steel
479.S5 Silicon alloys
479.S7 Stainless steel
479.T8 Tungsten alloys
479.V3 Vanadium steel
479.3 Nonferrous metals
479.6 Ceramic metals
480.A-Z Special metals, including their alloys, A-Z
480.A6 Aluminum
Including duralumin
480.B4 Beryllium
480.C5 Chromium
480.C6 Cobalt
480.C7 Copper
Including brass and bronze
480.G4 Germanium
480.I53 Indium
480.L4 Lead
480.L5 Lithium
480.M3 Magnesium
480.M35 Manganese
480.M4 Mercury
480.M6 Molybdenum
480.N6 Nickel
480.N63 Nickel-titanium alloys
480.N65 Niobium
480.P35 Palladium
480.R3 Rare earth metals
480.R5 Rhenium
480.R8 Rubidium
480.S5 Silver
480.T34 Tantalum
480.T5 Tin
Including babbitt
480.T54 Titanium
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Special metals, including their alloys, A-Z -- Continued

480.T9  Tungsten
480.U7  Uranium
480.Y8  Yttrium
480.Z6  Zinc
480.Z65 Zirconium

Metallic composites

481  General works
481.5  Fiber-strengthened composites

Alloys

483  General works
483.3  Eutectic alloys
    Including hypereutectic and hypoeutectic alloys

484  Lightweight alloys
    Cf. TA480.A6 Aluminum

485  Heat resistant alloys
    Cf. TA479.H43 Heat resistant steel
    Cf. TA479.6 Ceramic metals

486  Corrosion-resistant alloys

487  Shape memory alloys

491  Metal coatings
    Cf. TP1175.M4 Metal coating of plastics
    Cf. TS590+ Metal manufactures

492.A-Z  Special forms and shapes in metal, A-Z

492.A3  Adhesive joints
492.A6  Angles
492.B3  Balls
492.B63 Bolts and nuts
492.C6  Chains
492.C7  Columns
492.C9  Cylinders
492.F4  Fillets
492.F5  Flanges
492.G5  Girders
492.H6  Hooks
492.N2  Nails and spikes
492.P6  Pipes
492.P7  Plates
492.R6  Rivets
    Cf. TA891 Riveting
492.S25 Sandwich construction elements
492.S3  Screws
492.S5  Shafting
492.T4  Tee stiffeners
492.T8  Tubes
492.W4  Welded joints
492.W7  Wire
492.W77 Wire netting
492.W8  Wire rope
Disasters and engineering
  Cf. TC181 Earthquakes and hydraulic structures
  Cf. TC530+ Flood control
  Cf. TF539 Damage to railroads
  Cf. TH1095 Earthquakes and building

Surveying

| 501 | Periodicals, societies, etc. |
| 502 | Congresses |
| 504 | Collected works (nonserial) |
| 505 | Dictionaries and encyclopedias |
| 506 | Directories |

History

| 514.7 | Periodicals, societies, serials, etc. |
| 515 | General works |
| 516 | Ancient |
| 517 | Medieval |
| 518 | Modern |
| 519 | 19th-20th centuries |
| 520 | 20th century |

| 521-531 | Special regions or countries |
| America. United States |
| General works |
| Special divisions (United States) |
| e.g. |
| New England |
| States, A-W |
| Cities, A-Z |

Canada

| 523.A1 | General works |
| 523.A3-Z | By region or province, A-Z |

  Under each province:
  x General works
  x3A- x3Z Special cities, A-Z

Latin America. West Indies (Table T4)

South America (Table T4)

Europe (Table T4)

Asia (Table T4)

Africa (Table T4)

Australia

| 529.A1 | General works |
| 529.A3-Z | By region or state, A-Z |

  Under each state:
  x General works
  x3A- x3Z Special cities, A-Z

New Zealand

Pacific islands (Table T4)

Arctic regions

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| 532 | Collective |
| 533.A-Z | Individual, A-Z |
| 534 | Surveying as a profession |
| 535 | Study and teaching |
| 537 | Examinations, questions, etc. |
| 538.A-Z | By region or country, A-Z |
Surveying -- Continued

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<td>Cf. TA593.8+ Photographic triangulation</td>
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Surveying -- Continued

597  Applications of astronomy
     e.g. Azimuth observations
     Cf. QB201+ Geodesy
     Cf. VK563 Navigation

601  Measurement of distances
603  Measurement of angles

Leveling
606  General works
607  Spirit leveling. Precise leveling
609  Trigonometric
     Barometric hypsometry see QC895

610.A-Z  Lists of bench marks. By country, A-Z
611  Plotting
     Computation of areas

613  General works
614  Planimeters
     Class here works on application only

616  Topographic drawing
     Class here engineering works only
     Cf. GA125 Cartography
     Cf. UG470+ Military topography

Surveying for special purposes

622  Public land
623  Hydraulic surveying for engineering purposes
     Hydrographic surveying see VK588+
     City surveying see TD167
     Geodetic surveying see QB301+
     Geophysical surveying see TN269+
     Landscape architectural surveying see SB475.9.S95
     Military surveying see UG470+
     Mine surveying see TN273
     Railroad surveying see TF210+
     Road surveying see TE209+

625  Other special applications

Structural engineering (General)
     For structural engineering of a specific kind of structure, see the structure, e.g. TC540 Dams; TG
     Bridges; TH Buildings; TJ Machinery; TL Vehicles; VM Ships
     Cf. TA660.A+ Specific structural forms without regard to material used
     Cf. TA663+ Structures in special materials, including their structural parts

630  Periodicals, societies, congresses, etc.
631  Dictionaries and encyclopedias
     General works

632  Early to 1850
633  1850-
634  Juvenile works
635  Pocketbooks, tables, etc.
636  General special
637  Addresses, essays, lectures
638  Study and teaching
638.2  Research
638.5  Examinations, questions, etc.
     Structural engineering project management see TA190+
     Structural drawing see T355
     Computational methods

640  General works
 Structural engineering (General)
Computational methods -- Continued

640.2
General special
640.4
Problems, exercises, etc.
640.6
Graphic statics
   Cf. TG270 Graphic statics in bridge engineering
   Cf. TJ235 Graphic statics in mechanical engineering

640.8
Influence lines
641
Electronic computer methods
642
Matrix methods
643
Model analysis. Simulation methods

Structural analysis. Theory of structures

645
General works
646
General special
647
Data processing

Static loading conditions

648
General works
648.2
Dead loads
648.3
Stresses
648.4
Shear. Bending moments
648.5
Strains and deflections

Statistically indeterminate structures
   Including the slope-deflection method, moment-distribution method, Cross method,
   Castigliano's theorem, three-moment theorem, etc.

650
General works
651
Continuous systems
652
Limit analysis. Plastic analysis. Yield stress analysis
653
Elastic analysis

Dynamic loading conditions. Structural dynamics. Vibrations

654
General works
654.15
Modal analysis
654.2
Impact loading
654.3
Live loads. Moving loads
654.4
Snow and ice loads
   Cf. TG304 Bridges
   Cf. TH895 Snow loads in building

654.5
Wind loads
   Cf. TG303 Wind pressure on bridges
   Cf. TH891 Wind pressure in building

654.55
Water wave loads
654.6
Earthquake forces
   Including general earthquake engineering
   Cf. QE539.2.S34 Earthquake safety measures and hazard analysis
   Cf. TA658.44 Earthquake resistant design
   Cf. TC181 Hydraulic structures
   Cf. TF539 Railroads
   Cf. TH1095 Earthquakes and building

654.7
Blast loads
   Cf. TA658.42 Blast resistant design
   Cf. TH1097 Bombproof construction

654.8
Thermal stresses
654.9
Dynamic control

656
Stability of structures. Structural failure
   General works
Structural engineering (General)
Structural analysis. Theory of structures
Stability of structures. Structural failure -- Continued
656.2
   Buckling
656.3
   Fatigue
656.4
   Brittle fracture
656.5
   Probability of safety
656.6
   Structural health monitoring

Structural design
For design of structures of a specific material, see the specific material in TA663+
658
   General works
658.2
   General special
658.3
   Pocketbooks, tables, etc.
658.35
   Problems, exercises, examinations
658.4
   Structural design for dynamic loads
658.42
   Blast resistant design
658.44
   Earthquake resistant design
      Cf. TA654.6 Earthquake forces and earthquake engineering
      Cf. TH1095 Earthquakes and building
658.48
   Wind resistant design
      Cf. TA654.5 Wind loads
      Cf. TH891 Wind pressure in building
658.6
   Limit design. Plastic design
658.8
   Structural optimization
660.A-Z
   Specific structural forms, analysis, and design, A-Z
660.A53
   Angles
660.A7
   Arches
      Cf. TG327+ Arched bridges
      Cf. TH2150+ Arches in building detail
660.B3
   Bars
660.B4
   Beams
      Cf. TG350+ Beams and girders of bridges
660.B43
   Beams, Continuous
660.B45
   Bearings
      Cf. TJ1061+ Mechanical engineering
660.C3
   Cables. Cable structures
660.C36
   Cantilevers
660.C37
   Castellated beams
660.C47
   Channels
   Circular plates see TA660.P62
660.C6
   Columns
660.C9
   Cylinders
660.D52
   Diaphragms
660.D6
   Domes
      Cf. TH2170+ Domes in building detail
660.E9
   Expansion joints
      Cf. TJ424 Pipe fittings
      Cf. TL784.E9 Rockets
660.F53
   Flexible structures
660.F57
   Flitch beams
660.F6
   Floors (General)
      Cf. TH2521+ Floors in building design and construction
   Folded plates see TA660.P63
660.F7
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660.F72
   Frames, Continuous
Structural engineering (General)
Specific structural forms, analysis, and design, A-Z -- Continued

660.F73  Frames, Multistory
          Girders, Plates see TA660.P59
660.G7   Grillages
660.H66  Honeycomb structure
660.H97  Hyperboloid structures
660.J64  Joints
660.P55  Pipelines
660.P59  Plate girders
660.P6   Plates
660.P62  Plates, Circular
660.P63  Plates, Folded
660.P65  Plates, Twisted
660.P73  Polyhedra
          Pressure vessels see TA660.T34
660.S3   Sandwich elements
660.S5   Shells
          Cf. TH2416+ Shell roofs of buildings
660.S6   Slabs
660.S63  Space frame structures
660.S66  Steel beams
660.S67  Steel-wood I-beams
660.S7   Struts
660.T34  Tanks. Pressure vessels
          Cf. TF271 Track tanks
          Cf. TH4935 Silos
          Cf. TP692.5 Petroleum storage tanks
          Cf. TP756 Gasholders
          Cf. TP756.5 Underground storage
660.T46  Tensile architecture
660.T48  Thick-walled elements
660.T5   Thin-walled elements
660.T6   Towers
660.T8   Trusses
          Cf. TG375+ Truss bridges
          Cf. TH2392 Roof trusses
          Twisted plates see TA660.P65
660.W3   Walls (General)
          Cf. TH2201+ Walls in building detail
Design and construction in special materials
          For properties of special engineering materials without regard to their structural use see
          TA418.95+
663      Lightweight construction
          Cf. TH1100 Building construction
664      Composite design and construction
665      Prestressed construction
          Wooden construction
          Cf. TH1101 Building construction
666      General works
666.5.A-Z Individual structural members, A-Z
666.5.B43 Beams
666.5.J64 Joints
666.5.P35 Panels, Paneling
668      Plastic construction
Structural engineering (General)
Design and construction in special materials -- Continued

Masonry construction
  Cf. TH1199+ Building construction
  Cf. TH5311+ Practical masonry

670 General works

672 Stereotomy
  Cf. TH5401+ Stonecutting

676 Stone
  Cf. TH1201 Building construction

679 Brick
  Cf. TH1301 Building construction

Cement and concrete
  Cf. TH1461+ Building construction

680 Periodicals. Societies. Congresses

680.5 Directories

681 General works
  Analysis and design of structures
    General works

681.5

682 Pocketbooks, tables, etc.

682.25 Specifications and standards

682.26 Estimates and costs

682.3 Joints. Hinges
  Practical construction methods
    General works

682.4

682.42 Amateurs’ manuals

682.43 Cold weather conditions

682.44 Formwork

682.445 Bearing pads

682.446 Maintenance and repair

682.45 Pump placing

682.455 Roller compacting

682.46 Vibration processes

682.47 Vacuum processes

682.48 Hot weather conditions

682.485 Underwater construction

682.49 Finishing processes

682.5.A-Z Individual structural members, A-Z

682.5.S5 Slabs

Reinforced concrete construction
  Cf. TA444+ Construction materials
  Cf. TH1501 Building construction

Periodicals. Societies. Congresses see TA680

683 General works
  Analysis and design of structures
    General works

683.2

683.22 Pocketbooks, tables, etc.

683.23 Examinations, questions, etc.

683.24 Specifications and standards

683.26 Estimates

683.28 Drawings. Detailing

683.3 Joints
  Practical construction methods
    General works

683.4

683.42 Reinforcing bars
    Cf. TA445.5 Corrosion of reinforcing bars
Structural engineering (General)
Design and construction in special materials
Masonry construction
Cement and concrete
Reinforced concrete construction
Practical construction methods -- Continued

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Metal construction
Iron and steel
Cf. TA890+ Cutting, bending, riveting of iron and steel

684 General works

685 Catalogs. Pocketbooks, tables, etc.

690 Aluminum and aluminum alloys

695.A-Z Other metal construction, A-Z

Engineering geology. Geotechnical engineering
Cf. TC542 Dam geology

703 Periodicals. Societies. Serials

703.5 Congresses

704 Dictionaries and encyclopedias

705 General works
By region or country
United States

705.2 General works

705.3.A-Z By region or state, A-Z

705.4.A-Z Other regions or countries, A-Z
Subarrange each country by Table T4a

Rock mechanics

706 General works

706.3 Drill cores

706.5 Testing methods

709 Rockfills

709.5 Residual materials

Soil mechanics
Including properties of soils, water in soil, strength properties, consolidation, etc.
Cf. TE208+ Soil surveys in highway engineering
Cf. TL243+ Dynamics of motor vehicles

710.A1 Periodicals, societies, congresses, etc.

710.A15 Dictionaries and encyclopedias
Soil mechanics -- Continued

710.A2-Z
  General works
  By region or country
    United States

710.2
  General works

710.3.A-Z
  By region or state, A-Z

710.4.A-Z
  Other regions or countries, A-Z
    Subarrange each country by Table T4a

710.5
  Laboratory manuals. Testing of soils. Measurements
  Soil dynamics

711.A1
  Periodicals, societies, congresses, etc.

711.A2-Z
  General works

711.5
  Soil-structure interaction

712
  Underground construction

713
  Frozen ground construction
    Cf. GB2401+ Physical geography

714
  Snow mechanics. Avalanche control
    Cf. GB2401+ Physical geography
    Cf. QC929.A8 Avalanches (Meteorology)
    Cf. QC929.S7 Snow (Meteorology)

714.5
  Ice mechanics
  Earthwork
  General works

715
  Tables, calculations, etc. Estimates

721
  Earthmoving machinery
    Cf. TA735+ Excavating machinery

725
  Excavations
  General works

730
  Juvenile works

732
  Excavating machinery
    Cf. TC187+ Dredging
    Cf. TF225+ Railroads

735
  General works

737
  Trade catalogs

740
  Rock excavation
  General works

743
  Rock drilling
    Cf. TA800+ Tunneling
    Cf. TD412 Well boring
    Cf. TN275+ Mining operations

745
  Rock drills
  General works

748
  Blasting

749
  Soil stabilization
    Including soil compaction
    Cf. S593.23 Agriculture
    Cf. TE210.4+ Highway engineering

750
  Hydraulic filling

755
  Grouting

760
  Embankments, retaining walls, dams, etc.
    Cf. TC540+ Dams

765
  Earth pressure

770
  Retaining walls
  Geosynthetic encased columns see TA788
Earthwork
   Embankments, retaining walls, dams, etc. -- Continued
   Anchorage (Structural engineering)

772
   Foundations
      Cf. TC197 Foundations under water
      Cf. TG320 Foundations of bridges
      Cf. TH2101 Foundations of buildings

775
   General works

777
   Guy anchors
   Piles and pile-driving

780
   General works

783
   Screw-piles

785
   Sheet-piling

786
   Steel piling

787
   Concrete piling

788
   Geosynthetic encased columns

Tunneling. Tunnels
   Including vehicular tunnels
      Cf. TF230+ Railroad tunnels and tunneling
      Cf. TN285 Mine tunneling

800
   Periodicals, societies, congresses, etc.
   History

803
   General works

804.A-Z
   By region or country, A-Z

805
   General works

807
   Popular works. Juvenile works

810
   Pocketbooks, tables, etc.

814
   Ventilation and lighting

815
   Special topics and methods

820.A-Z
   Tunnels. By place, A-Z

Scaffolding see TH5281

Practical masonry, stonecutting, bricklaying, etc. see TH5311+

(881)

Centering of arches
   see TH5591

Iron and steel work
   Including cutting, bending, etc.
      Cf. TA684+ Construction

890
   General works

891
   Riveting

900
   Protection of structures
      Cf. TH9025+ Protection of buildings

901
   Waterproof construction
      Cf. TH9030+ Protection of buildings from dampness

Transportation engineering
   Class individual types of transportation with the type, e.g. TF Railroads; TL Motor vehicles,
      airplanes, etc.
      For economics of transportation see HE1+

1001
   Periodicals and societies
1004
   Yearbooks
      see TA1001

1005
   Congresses

1006.A1
   General works

1006.A2-Z
   By region or country, A-Z
      Subarrange each country by Table T4b

1007
   Collected works (nonserial)
Transportation engineering -- Continued

1009  
Dictionaries and encyclopedias

1015  
History

1021-1127  
Country divisions (Table T1a)

Add country number in table to TA1000

1145  
General works

1147  
Popular works

1149  
Juvenile works

1151  
Handbooks, tables, etc.

1155  
Addresses, essays, lectures

1160  
Transportation engineering as a profession

1163  
Study and teaching

1165  
Data processing

Route surveying see TA551; TA625

1200  
Coordination of forms of transportation

Urban and metropolitan transportation systems

For local see TA1021+

1205  
General works

1207  
Personal rapid transit

Freight

1210  
General works

1215  
Containerization

1225  
Terminals. Transport centers

1227  
Food service

Cf. TF668.A1+ Dining car service

1230  
Automation

1235  
Electronics in transportation

1245  
General works

1250  
Signal lights

1280  
Heating, ventilation, and air conditioning equipment

1285  
Access for people with disabilities. Barrier-free design

Applied optics. Photonics

Class applications in a special field with the field

Cf. QC370.5+ Optical instruments and apparatus

Cf. QH201+ Microscopes and microscopy

Cf. TK5103.59+ Optical communications

Cf. TK8300+ Optoelectronic devices. Photoelectronic devices

Cf. TR1+ Photography

Cf. TS510+ Optical instrument manufacture

1501  
Periodicals. Societies. Serials

1505  
Congresses

1509  
Dictionaries and encyclopedias

1520  
General works

1521  
Juvenile works. Popular works

1522  
General special

1530  
Nanophotonics

Applied holography

Cf. HD9707.5.H34+ Holography industry

Cf. QC244.5 Acoustic holography (Physics)

Cf. QC449+ Holography (Physics)

Cf. TA417.45 Holographic testing of engineering materials

1540  
General works

1542  
General special

1550  
Acoustic holography

1552  
Microwave holography
Applied optics. Photonics
Applied holography -- Continued
Holographic interferometry
For stereoscopic photography see TR780
Three-dimensional imaging
Class here general works on three-dimensional imaging
For three-dimensional display systems see TK7882.T47
Infrared technology
Cf. QC457 Infrared rays
Cf. TK4635 Infrared heating
Cf. TP363 Heating, drying, cooling, etc.
Cf. TR755 Photography
General works
Detectors. Sensors
Ultraviolet technology
Cf. QC459+ Ultraviolet rays
Optical data processing
Cf. TA1540+ Applied holography
Cf. TK7895.06 Optical equipment (Computers)
Cf. TK8315+ Imaging systems
General works
General special
Computer vision
Cf. TJ211.3 Robot vision
Optical data storage
Cf. TK6685 Video discs and video disc equipment
Cf. TK7882.C56 Compact discs
Cf. TK7882.D93 DVDs. DVD players
Security measures
Including image steganography, image encryption, and digital watermarking of image files
Image processing
For three-dimensional imaging see TA1560
Cf. TK8315+ Imaging systems
Cf. TR267+ Digital photography
Cf. TR897.7+ Computer animation
General works
Mathematics
Image compression
Including coding standards, e.g., JPEG
For MPEG see TK6680.8.M74
Image segmentation
Optical character recognition
Optical pattern recognition
General works
Gesture recognition
Human face recognition
Image analysis. Image authentication
Cf. TA219 Forensic engineering
Image stabilization
Micro-optics
General works
Integrated optics
Micro lenses
Applied optics. Photonics -- Continued
Lasers and laser applications
   For application in special fields, see the field, e.g. RE992.P5, Laser coagulation; TA1540-TA1555,
   Applied holography; TJ1191, Laser beam cutting; TK5103.6, Laser communication systems;
   TK6592.O6, Optical radar
   Cf. QC685+ Laser physics
   Cf. TK7871.4 Masers
1671 Periodicals, societies, etc.
1673 Congresses
1674 Directories
1675 General works
1677 General special
1680 Popular works
1682 Juvenile works
1683 Handbooks, tables, etc.
1684 Addresses, essays, lectures
1688 Mode-locked lasers
1690 Chemical lasers. Dye lasers
1693 Free electron lasers
1694 Gamma ray lasers
1695 Gas lasers
1695.5 High power lasers
1696 Infrared and far infrared lasers
1699 Raman lasers
   Including Raman fiber lasers
1700 Semiconductor lasers
1705 Solid-state lasers (Ruby, etc.)
1706 Tunable lasers
1707 X-ray lasers
1715 Laser ablation

Applied electrooptics. Electrooptical devices. Optoelectronics
   For specific optoelectronic devices see TK8300+
   Cf. QC673+ Electrooptics
1750 General works
1770 Applied acoustooptics. Acoustooptical devices
1773 Applied neutron optics. Neutron optical devices
1775 Applied X-ray optics
   Applied fiber optics
      For fiber optics; optical fiber communication see TK5103.592.F52
      Cf. QC447.9+ Fiber optics (Physics)
1800 General works
1815 Optical fiber detectors
1820 Stroboscopy

Plasma engineering. Applied plasma dynamics
   Class applications in a special field with the field
2001 Periodicals. Societies. Serials
2005 Congresses
2020 General works
2030 Plasma devices (General)
   Cf. TK2970 Magnetohydrodynamic generators
   Cf. TL783.6 Plasma rockets
2040 Magnetohydrodynamics. Magnetohydrodynamic devices
   Cf. TK2970 Magnetohydrodynamic generators
Hydraulic engineering

For municipal water supply see TD201+
For hydraulic machinery see TJ840.A2+

1 Periodicals, societies, etc.
5 Congresses
6 Exhibitions. Museums

6.A1 General works
6.A2-Z By region or country, A-Z
Subarrange each country by Table T4b
7 Collected works (nonserial)
9 Dictionaries and encyclopedias
12 Directories

History and description

15 General works
16 Ancient
17 Medieval
18 Modern
19 19th century
20 20th century
21-127 Country divisions (General hydraulic works) (Table T1a)
Add country number in table to TC0

Biography

139 Collective
140.A-Z Individual, A-Z
e.g. 140.K5 Klír, Antonín

General works

144 Early to 1800
145 1800-
146 Juvenile works
147 Waterpower engineering. Hydraulic powerplants
Including use of tidal power
For power utilization of specific rivers see TC415+
Cf. TJ840.A2+ Hydraulic machinery
Cf. TK1081+ Hydroelectric power production
Cf. TK1421+ Hydroelectric powerplants

151 Pocketbooks, tables, etc.
153 General special
155 Addresses, essays, lectures

Study and teaching

157 General works
157.5 Problems, exercises, etc.
157.8 Electronic data processing. Mathematics
158 Hydraulic laboratories
159 Safety measures

Technical hydraulics

160 General works
163 General special
163.5 Environmental hydraulics
Hydraulic models

164 General works
164.6 Movable bed models
Hydrostatics (Water at rest)

165 General works
167 Dams, reservoirs
169 Gates, sluices, etc.
Technical hydraulics -- Continued
Hydrodynamics (Water in motion)
171
  General works
171.5
  Water tunnels
172
  Water waves
173
  Orifices. Nozzles. Jets
    Cf. TH9323 Fire streams
    Cf. TP156.S6 Spraying
    Cf. TP159.A85 Atomizers
174
  Pipes and conduits
    Including water hammer
  Open channels, rivers, and canals. Sluices, flumes, weirs. Stream gauging
175
  General works
175.2
  Sediment transport
    For sediment transport of specific rivers, etc., see TC421+
176
  Underground flow
177
  Hydraulic measurements. Hydraulic instruments, meters, registers, etc.
    Cf. TD499+ Domestic meters
    Smart water grids see TD484
179
  Tables, diagrams, etc.
180
  Hydraulic structures
    Cf. TA654.55 Water wave loads
181
  Earthquakes and hydraulic structures
General preliminary operations
183
  General works
  Diving see VM975+
187
  Dredging
  General works
188
  Dredges
191
  Submarine blasting
  General works
192
  Hell Gate
193
  Submarine drilling
    Cf. TN871.3 Petroleum well drilling
  Submarine building
195
  General works
197
  Submarine foundations. Cribwork, etc.
    For bridge pier foundations see TG320
198
  Cofferdams
199
  Caissons
200
  Deterioration of structures exposed to sea water
    Including corrosion
201
  Control of organisms injurious to submerged structures
    Cf. QH91.8.M3 Marine biology
    Cf. TA422+ Wood
Harbors and coast protective works. Coastal engineering
203
  Periodicals. Societies. Serials
203.5
  Congresses
203.7
  Dictionaries and encyclopedias
General works
204
  Early to 1800
205
  1800-
209
  General special
215-327
  History and country divisions (Table T1)
    Add country number in table to TC200
    Class here special harbors, inlets, channels, etc.
Marinas
Coast protective works
  For local see TC215+
General works
Beach nourishment
Breakwaters
Seawalls
Dikes, levees, embankments
  For river levees see TC533
  For canal embankments see TC759+
Dunes (as defense works)
Sand bypassing
Tree planting
Reclamation and preservation of land from the sea. Polders
  Cf. TC970+ Land drainage and reclamation of bogs, swamps, and lakes
General works
By region or country, A-Z
Harbor engineering
  Cf. HE550+ Economic aspects
  Cf. SH337.5 Fishing port facilities
Approach channels
Sea locks
Docks
Piers, quays, and wharves
  Cf. QH545.W53 Environmental aspects
Drydocks
Floating harbors
  Including floating docks, piers, etc.
Other special docks
Mechanical equipment of docks for cargo handling, etc.
  Including cranes
  For cargo handling, etc. see VK235
General special
  Including mooring berths, fenders
Lighthouses (Construction and equipment)
General works
Lights, lamps, etc.
Lenses
Buoys
River, lake, and water-supply engineering (General)
  Class here development of the water resources of a watershed
  Cf. TD201+ Municipal water supply
Periodicals, societies, congresses, etc.
Dictionaries and encyclopedias
General works
Early to 1800
1800-
Popular works
Pocketbooks, tables, etc.
General special
  Including estimation of value, simulation methods
Addresses, essays, lectures
Watershed management
River, lake, and water-supply engineering (General) -- Continued

415-527
   History and country divisions (Table T1 modified)
      Add country number in table to TC400
      Class here special rivers and lakes
      Cf. GB1201+ Physical geography of rivers
      Cf. HE380.8+ Economic aspects of waterways
   Special countries
      America
         North America
            United States
      423
         General works
      423.3
         Great Lakes
            Including diversion of water from Lake Michigan
      Mississippi River
         The detailed arrangement for Mississippi River should not be used for other rivers
      425.M6
         General works
      425.M61
         Conventions
            Arrange by date
      425.M62
         Levees
      425.M63A-.M63W
         Levees of special states, A-W
      425.M65
         Jetties
      425.M66A-.M66W
         Special states, A-W
      425.M67A-.M67Z
         Special cities, A-Z
            e.g.
      425.M67M5
         Memphis
      Rivers of Canada
      426
         General works
      426.5.A-Z
         Provinces, A-Z
      427.A-Z
         Special rivers and lakes, A-Z
            e.g.
      427.S3
         St. Lawrence River
   Europe
      Rivers of Great Britain
      457
         General works
      464.A-Z
         Special rivers and lakes, A-Z
            e.g.
      464.T4
         Thames
      Rivers of Austria
      465
         General works
      465.2.A-Z
         Special rivers and lakes, A-Z
            e.g.
      465.2.D2
         Danube
      Rivers of France
      471
         General works
      472.A-Z
         Special rivers and lakes, A-Z
            e.g.
      472.S4
         Seine
   Asia
      South Asia
         Rivers of India
      503
         General works
      503.5.A-Z
         Provinces, etc., A-Z
      504.A-Z
         Special rivers and lakes, A-Z
            e.g.
      504.I4
         Indus River
      Rivers of Japan
River, lake, and water-supply engineering (General)

History and country divisions
Special countries
Asia
Rivers of Japan -- Continued

505
General works
505.5.A-Z
Prefectures, etc., A-Z
506.A-Z
Special rivers and lakes, A-Z

529
Stream channelization. Channel improvement
River protective works. Regulation. Flood control
For local see TC415+
Cf. HD1675+ Economic aspects

530
General works
531
Flood control channels
533
Levees
535
Jetties
537
Tree planting. Streambank planting

Dams. Barrages

540
General works
541
Juvenile works
Dam site selection
542
Dam geology
For the geology of dam sites of special areas see TC556+
542.5
Earthquakes and dams

Dam types
543
Earthen dams
545
Wooden dams
547
Masonry dams. Concrete dams
549
Other (not A-Z)
Including steel, movable, beartrap, needle

550
Dam safety
For local see TC556+
550.2
Dam failures
For local see TC556+
553
Sluices and gates
554
Trashracks
555
Wasteways, spillways, weirs, etc.

Special countries
United States
556
General works
556.5.A-Z
By region, A-Z
557.A-.W
By state, A-W

Under each:
.x
General works
.x2A-.x2Z
Special dams, A-Z
e.g.
California
557.C2
General works
557.C3A-.C3Z
Special dams, A-Z
e.g.
557.C3O76
Oroville Dam
557.3.A-Z
By river, A-Z
Class here only rivers located in two or more states
e.g.
557.3.P6
Potomac River
Dams. Barrages
Special countries
United States -- Continued
557.5.A-Z Other special dams, A-Z
   Class here only dams located in two states
   e.g.
557.5.H6 Hoover Dam
558.A-Z Other regions or countries, A-Z
   Under each (unless otherwise specified):
   .x General works
   .x2A-.x2Z Special dams, A-Z
   e.g.
   China
558.C5 General works
558.C52A-.C52Z Special dams, A-Z
   e.g.
558.C52S26 San Xia Dam. Three Gorges Dam
   Three Gorges Dam see TC558.C52S26
Egypt
558.E4 General works
558.E5A-.E5Z Special dams, A-Z
   e.g.
558.E5A8 Aswan High Dam
Canals and inland navigation. Waterways
   Cf. HE380.8+ Economic aspects
   Cf. TC930 Irrigation canals
601 Periodicals, societies, etc.
605 Congresses
607 Collected works (nonserial)
615-727 History and country divisions (Table T1 modified)
   Add country number in table to TC600
   Class here special canals and locks
Special countries
   America
   North America
   United States
      Canals (General)
      623.1 Great Lakes to Atlantic
      623.2 Great Lakes to Gulf of Mexico
      623.3 Mississippi to Atlantic
         Intracoastal waterways
      623.4 Atlantic
      623.5 Gulf of Mexico
      623.7 Miscellaneous general projects
      624.A-.W Special states, A-W
      625.A-Z Special canals and locks, A-Z
         Under each:
         .xA1-.xA3 Serial documents
         .xA5 Special documents, by date
         .xA6-.xZ General works
         e.g.
558.E6 Erie Canal
558.M6 Middlesex Canal
   Isthmian canals see TC773+
Europe
555 General works
Canals and inland navigation. Waterways
History and country divisions
Special countries
Europe -- Continued
656.A-Z
   Special projects, A-Z
      e.g.
656.R5
   Rhine-Main-Danube Waterway
   Great Britain. England
664.A-Z
   Cities (or other special), A-Z
      e.g.
664.M2
   Manchester Ship Canal
   Balkan Peninsula
695.B2
   General works
695.B23A-.B23Z
   Special projects, A-Z
      e.g.
695.B23D3
   Danube-Aegean project
Africa
   Egypt
718.A-Z
   Local or special, A-Z
   Suez Canal see TC791
General works
744
   Early to 1800
745
   1800-
751
   Pocketbooks, tables, etc.
753
   General special
755
   Addresses, essays, lectures
Special aspects
759
   Canal embankments
761
   Canal locks
      For special locks see TC615+
762
   Canal gates
      Including operating devices
763
   Lifts and inclines
764
   Canal aqueducts
765
   Canalboats
766
   Resistance of water
   Motive power. Towing
767
   General works
769
   Mechanical and electrical
770
   Ship canals (General)
      For economic studies, traffic statistics, etc. see HE380.8+
Ship and boat railways
771
   General works
772
   Special (except Tehuantepec)
   Tehuantepec Ship Railway see TC786
Isthmian canal projects (General)
773
   General works
   Panama Canal
774
   General works
      For economic aspects see HE537+
777
   Operation of the canal
      Cf. HE538.A1+ Administration of the canal
777.5
   Miscellaneous uncataloged matter
   Compagnie universelle du canal interocéanique de Panama
778
   General works
778.B9
   Bulletin du canal interocéanique
Canals and inland navigation. Waterways
Isthmian canal projects (General)
Panama Canal
Compagnie universelle du canal interoceanique de Panama

(778.1)
Annual report of directors
see HE537.33

778.2
Annual report of chief engineer
778.3
Other serial reports
778.5
Special reports. By date
(778.7)
Charter, bylaws
see HE537.37

778.8
Other printed matter

Compagnie nouvelle du canal de Panama
779
General works
779.B9
Bulletin
(779.1)
Annual report of directors
see HE537.43+

779.2
Annual report of chief engineer
779.3
Other serial reports
779.5
Special reports. By date
(779.7)
Charter, bylaws
see HE537.47

779.8
Other printed matter

780
The "Panama affair" and history of the companies
Panama Exposition
Preliminary
United States
781.A1-.A3
Documents
781.A4A-.A4W
States, A-W
781.A5A-.A5Z
Cities, A-Z
781.A6A-.A6Z
Other regions or countries, A-Z
781.A7
Nonofficial. By author
The Exposition
781.A8
Official guides
Histories and descriptions
781.B1
General works
781.B2
General special
781.C1
Collections of pictures, views, etc.
Official publications
Acts of incorporation, rules, organization, etc.
781.D1
General works
781.D13
Translations of acts
Rules, regulations, etc.
781.D15
General works
781.D17
Translations of rules, regulations, etc.
781.D2
General reports, proceedings, etc., of governing board
781.D25
Reports of national (government) commission
781.D3
General reports of special boards, commissions, etc.
781.D4
Congressional hearings and reports of national government on appropriations, etc.
By date
781.D5
Special reports. By date
General catalogs
781.D6
Official. By date
781.D7
Nonofficial
Subarranged by author
781.D8
Reports and awards of jurors
Canals and inland navigation. Waterways
Isthmian canal projects (General)
Panama Canal
Panama Exposition
The Exposition

Official publications -- Continued
Miscellaneous printed matter
Official comprehensive reports on the exhibits by editorial commissions, etc. By date
General official reports of other countries on exhibitions
Exhibits of the country in which the exhibition is held
Exhibits arranged by names of exhibitors
Works on various exhibits which cannot well be classified with any one subject, e.g. a
work on an educational exhibit goes in class L, Education, subdivision Exhibits, but a
work on Machinery hall is classed here
Exhibits arranged by names of exhibitors
Works on various exhibits which cannot well be classified with any one subject, e.g. a
work on an educational exhibit goes in class L, Education, subdivision Exhibits, but a
work on Machinery hall is classed here
Miscellaneous
Other than .A1-.K1
Congresses. General reports
Other Isthmian canal projects
Nicaragua Canal
Tehuantepec Canal
Tehuantepec Ship Railway
Darien, Atrato and others
Suez Canal
Irrigation engineering. Reclamation of wasteland
Cf. HD1690+ Water rights
Cf. HD1710.2+ Economic situation, history, etc.
Cf. S604.8+ Agriculture
Cf. SB112 Irrigation farming
Cf. TC343+ Reclamation of land from the sea
Periodicals, societies, etc.
Congresses
Dictionaries and encyclopedias
General works
General special
Management of irrigation projects
History and country divisions (Table T1 modified)
Add country number in table to TC800
Special countries
Asia
South Asia
India
General works
Special projects, A-Z
Ganges Canal
Irrigation engineering. Reclamation of wasteland -- Continued

(927)
Irrigation by pumping
  see TC929
Biography
928
  Collective
928.2.A-Z
  Individual, A-Z
929
  Irrigation pumps
930
  Irrigation canals
933
  Irrigation flumes and conduits
937
  Gates and other incidental structures
Flooding of deserts and wastelands
950
  General works
  Special
953
  United States
955
  Sahara
957.A-Z
  Other, A-Z
Drainage
  Cf. HD1681+ Economics, public policy, etc.
  Cf. S621 Farmers' manuals
970
  General works
973
  Relief wells
974
  Wellpoint system
974.2
  Vertical drains
975
  Reclamation of bogs, swamps, lakes, etc.
  Cf. TC343+ Reclamation of land from the sea
Country divisions
  United States
976
  General works
977.A-Z
  Regions or states, A-Z
978.A-Z
  Other regions or countries, A-Z
  Subarrange each country by Table T4a
Ocean engineering
  Cf. GC1000+ Marine resources
  Cf. TN291.5 Ocean mining
1501  Periodicals, societies, etc.
1505  Congresses
1550  Directories
1645  General works
1650  General special
1655  Study and teaching
1657  Electricity in ocean engineering
1660  Patents
1662  Remotely operated vehicles
    Offshore structures
1665  General works
1670  Corrosion
1680  Models
    Compliant platforms
1700  General works
1702  Semi-submersible offshore structures
1703  Tension leg platforms
1800  Underwater pipelines
Environmental technology. Sanitary engineering

Including the promotion and conservation of the public health, comfort, and convenience by the control of the environment

Cf. GE170+ Environmental policy
Cf. GF51 Human beings and the environment
Cf. RA565+ Environmental health
Cf. TA163 Sustainable engineering
Cf. TH6014+ Environmental engineering in buildings

Periodicals and societies. By language of publication

1 English
2 French
3 German
4 Other languages (not A-Z)
5 Congresses

Exhibitions. Museums

6.A1 General works
6.A2-Z By region or country, A-Z

Subarrange each country by Table T4b

7 Collected works (nonserial)
9 Dictionaries and encyclopedias
12 Directories

History

15 General works
16 Ancient
17 Medieval
18 Modern to 1800
19 Nineteenth century
20 Twentieth century

Country and city subdivisions

Including municipal reports of public sanitary works

America

21 General works
North America

22 General works
United States

23 General works
23.1 Eastern states. Atlantic coast
23.15 New England
23.2 Appalachian region
23.3 Great Lakes region
23.4 Midwest. Mississippi Valley
23.5 South. Gulf states
23.6 West
23.7 Northwest
23.8 Pacific coast
23.9 Southwest

24.A4 Alaska
24.H3 Hawaii
25.A-Z Cities or other special, A-Z

Canada

26.A1 General works
27.A-Z Local (Cities, etc.), A-Z
27.5 Latin America
Country and city subdivisions

America -- Continued

Mexico
28.A1 General works
28.A6-Z States, provinces, etc., A-Z
29.A-Z Local (Cities, etc.), A-Z

Central America
30 General works
31.A-Z Special countries, A-Z

South America
34 General works
Argentina
36.A1 General works
36.A6-Z States, provinces, etc., A-Z
37.A-Z Local (Cities, etc.), A-Z

Bolivia
38.A1 General works
38.A6-Z States, provinces, etc., A-Z
39.A-Z Local (Cities, etc.), A-Z

Brazil
41.A1 General works
41.A6-Z States, provinces, etc., A-Z
42.A-Z Local (Cities, etc.), A-Z

Chile
43.A1 General works
43.A6-Z States, provinces, etc., A-Z
44.A-Z Local (Cities, etc.), A-Z

Colombia
45.A1 General works
45.A6-Z States, provinces, etc., A-Z
46.A-Z Local (Cities, etc.), A-Z

Ecuador
47

Guyana
48

Suriname
49

French Guiana
50

Paraguay
51

Peru
52

Uruguay
53

Venezuela
54

Europe
55 General works

Great Britain. England
57 General works
58.A-Z English counties or regions, A-Z

Ireland
59 General works
59.2 Irish Free State. Ireland (Eire)
59.3 Northern Ireland

60.A-Z Special counties, A-Z

Scotland
61 General works
62.A-Z Special counties, A-Z

Wales
63

Cities or other special, A-Z
64.A-Z

Austria
65.A1 General works
Country and city subdivisions

Europe

Austria -- Continued
- States, provinces, etc., A-Z
- Local (Cities, etc.), A-Z

Czechoslovakia
- General works
- States, provinces, etc., A-Z
- Local (Cities, etc.), A-Z

Hungary
- General works
- Special counties, A-Z
- Cities or other special, A-Z

Belgium
- General works
- States, provinces, etc., A-Z
- Local (Cities, etc.), A-Z

Denmark
- General works
- States, provinces, etc., A-Z
- Local (Cities, etc.), A-Z

France
- States, provinces, etc., A-Z
- Local (Cities, etc.), A-Z

Germany
- General works
- East Germany. Eastern Germany
- Baden-Württemberg
- Bavaria
- Hesse
- Prussia
- Saxony
- North Rhine-Westphalia
- Other states, A-Z
- Cities or other special, A-Z
- Colonies (Collectively)

Greece
- General works
- States, provinces, etc., A-Z
- Local (Cities, etc.), A-Z

Netherlands
- General works
- States, provinces, etc., A-Z
- Local (Cities, etc.), A-Z

Italy
- General works
- States, provinces, etc., A-Z
- Local (Cities, etc.), A-Z

Malta

Norway
- General works
- States, provinces, etc., A-Z
- Local (Cities, etc.), A-Z

Portugal, Azores, etc.
Country and city subdivisions

Europe

Portugal, Azores, etc. -- Continued

83.A1
  General works
83.A6-Z
  States, provinces, etc., A-Z
84.A-Z
  Local (Cities, etc.), A-Z
84.5
  Colonies (Collectively)

Russia in Europe

85.A1
  General works
85.A6-Z
  States, provinces, etc., A-Z
86.A-Z
  Local (Cities, etc.), A-Z

Spain

87.A1
  General works
87.A6-Z
  States, provinces, etc., A-Z
88.A-Z
  Local (Cities, etc.), A-Z
88.5
  Scandinavia

Sweden

89.A1
  General works
89.A6-Z
  States, provinces, etc., A-Z
90.A-Z
  Local (Cities, etc.), A-Z

Switzerland

91.A1
  General works
91.A6-Z
  States, provinces, etc., A-Z
92.A-Z
  Local (Cities, etc.), A-Z
95.A-Z
  Other regions and countries, A-Z
95.A2
  Balkan Peninsula
95.A38
  Albania
95.A44
  Alps
95.A48
  Andorra
95.B3
  Baltic Sea
95.B43
  Belarus
95.B45
  Benelux countries
95.B9
  Bulgaria
95.C37
  Carpathian Mountains
95.D35
  Danube River
95.F5
  Finland
95.I43
  Iceland
95.L285
  Lapland
95.L37
  Latvia
95.L78
  Lithuania
95.L9
  Luxemburg
95.M4
  Mediterranean Region
95.N67
  North Sea
95.P7
  Poland
95.P75
  Pomerania (Poland and Germany)
95.R48
  Rhine River
95.R6
  Romania
95.S55
  Slovenia
95.T48
  Thrace
95.U95
  Ukraine
95.Y8
  Yugoslavia

Asia

99
  General works

China
  For Hong Kong see TD113.H85

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   156 Environmental and sanitary engineering as a profession

Study and teaching
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   Cf. HD7285+ Housing
   Cf. SB481.A1+ Parks
   Cf. TE1+ Streets and roads
   Cf. TH350 Engineering of the subdivision

159.A1 Periodicals, societies, congresses, etc.
159.A5-Z General works
159.3 General special
          By region or country see TD21+
159.4 Smart cities
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159.5
Department organization and management
Planning and laying out cities
Cf. HT165.5+ City planning (Urban sociology)
Cf. HT170+ Urban renewal
Cf. NA9000+ City planning (Architecture)
160
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168
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Environmental protection
Cf. GE170+ Environmental policy
169
Periodicals, societies, congresses, etc.
169.3
Dictionaries and encyclopedias
169.5
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169.6
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170
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170.15
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170.2
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Including its control
Class special types of pollution with the type, e.g. GC1080+ Marine pollution; TD196.R3
Radioactive pollution; TD419+ Water pollution; TD881+ Air pollution; TD891+ Noise pollution,
etc.
Cf. SB744.5+ Crops and pollution
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181.A-Z By region or state, A-Z
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189.5.N4
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190.5
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Equipment and supplies
Special methods
Chemical treatment
192.2
General works
192.3
Catalysis
192.35
Electrochemical treatment
Including electrokinetic remediation
Class here general works on electrical techniques for pollution prevention; for electrical
techniques for special types of pollution, see the type, e.g. TD757 electrolytic treatment
of sewage
192.4
Lime treatment
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Oxidation
Biological treatment. Bioremediation
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In situ remediation

Measurement of pollution. Sampling and analysis. Environmental chemistry
For measurement or analysis of specific pollutants see TD196.A+
193
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(193.2)
Environmental indicators
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193.3
Cross-media pollution
193.4
Environmental forensics
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Risk assessment
Cf. GE145+ Environmental risk assessment
Environmental effects of industries and plants
  Cf. HD30.255 Environmental aspects of industrial management
  Cf. TD419+ Water pollution
  Cf. TD881+ Air pollution
  Cf. TD891+ Noise pollution
  Cf. TD896+ Industry and factory wastes

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194.4  General special
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195.A27  Aeronautics
   Including air transportation
195.A33  Aggregate industry
195.A34  Agriculture
   Class here works on agricultural pollution, i.e. agriculture as a source of pollution
   Cf. S589.7 Agricultural ecology
   Cf. S589.75+ Agriculture and the environment
   Cf. TD930+ Agricultural wastes
195.A36  Airports
195.A37  Aluminum industry. Bauxite industry
195.A44  Ammonia industry
195.A47  Amphitheaters see TD195.S68
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   Atomic power plants see TD195.E4
195.B34  Ballistic missile defenses
   Baseball fields see TD195.S68
   Bauxite industry see TD195.A37
195.B56  Biomass energy
195.B58  Biotechnology
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195.B74  Bridges
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195.C45  Chemical plants
195.C47  Church facilities
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195.C58  Coal mines and mining
195.C59  Cobalt mines and mining
195.C595 Construction industry
195.C6  Cooling towers
  Correctional institutions see TD195.P74
195.D35  Dams
195.D5  Diamond mines and mining
195.D53  Diaper industry
195.D72  Dredging
195.D78  Drug factories
195.D94  Dyes and dyeing
195.E25  Economic development
195.E37  Electric lines. Telecommunication lines
195.E4  Electric power plants
  Cf. SH173 Effect on fish culture
195.E43  Electrochemistry, Industrial
195.E45  Electroplating
  Elementary school buildings see TD195.S33
195.E49  Energy development
195.E5  Energy facilities
195.F46  Fertilizer industry
195.F52  Fishery processing industries
195.F57  Food industry
  Football stadiums see TD195.S68
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195.F6  Foundries
195.G3  Gas industry
195.G46  Geothermal power plants
195.G57  Glass manufacture
195.G64  Gold industry
195.G66  Golf courses
195.H39  Hazardous waste management industry
  High school buildings see TD195.S33
195.H54  High technology industries
  Horse racetracks see TD195.R26
195.H66  Hospitals
195.H67  Hotels. Office buildings
195.H93  Hydraulic engineering
195.I52  Incineration
195.I54  Industrial districts
195.I76  Ironworks
  Jails see TD195.P74
195.J48  Jetties
195.L4  Leather industry
195.L52  Lighting
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195.L53  Lignite industry
195.L55  Limestone industry
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195.M37  Marinas
195.M39  Marine terminals
195.M42  Metalworking industries
195.M45  Military aeronautics
195.M46  Military bases
  For navy-yards and naval stations see TD195.N38
195.M48  Mine subsidences
195.M5  Mineral industries
  For melioration of mined lands see S621.5.M48
195.M67  Motorsports
195.N38  Navy-yards and naval stations
195.N47  New towns
195.N65  Nonferrous metal industries
195.N83  Nuclear facilities (General)
  Cf. TD195.E4 Electric power plants
  Nuclear power plants see TD195.E4
195.N85  Nuclear weapons plants
195.O25  Ocean mining
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195.O4  Oil-shale industry
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195.P35  Paint industry
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195.P38  Peat mining
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  Cf. TD427.P4 Water pollution
  Cf. TD888.P4 Air pollution
195.P46  Phosphate mines and mining
195.P47  Phosphatic fertilizer industry
195.P5  Pipelines
195.P516  Planned unit developments
195.P52  Plastics industry
195.P64  Police stations
  Power resource development see TD195.E49
195.P7  Printing industry
195.P76  Proving grounds
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  Public school closings see TD195.S333
195.P83  Public utilities
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195.R33  Railroads
195.R34  Rainmaking
195.R4  Reactor fuel reprocessing plants
195.R45  Research natural areas
195.R47  Reservoirs
195.R49  Resource recovery facilities
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195.S333
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  Including public school closings
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195.S54
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195.S57
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  Including baseball fields, football stadiums, and soccer fields
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  Cf. QH545.S84 Ecology
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  196.H4
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      Cf. TD427.H4 Heat pollution of water
  196.H43
    Heavy elements
    Heavy metals see TD196.M4
  196.H47
    Herbicides
  196.H94
    Hypochlorites
  196.L4
    Lead
  196.L55
    Lime
Special environmental pollutants
Other environmental pollutants, A-Z -- Continued

196.M38
Mercury
Cf. TD427.M4 Mercury pollution of water
Cf. TD887.M37 Mercury pollution of air

196.M4
Metals. Heavy metals. Contaminated processed metals
Cf. TD427.M44 Heavy metal pollution of water

196.M48
Methoxychlor

196.N36
Nanoparticles. Nanostructured materials

196.N48
Nickel

196.N55
Nitrogen and nitrogen compounds

196.O73
Organic compounds

196.O75
Organolead compounds

196.O76
Organometallic compounds

196.O95
Oxidizing agents

196.P28
Palladium

196.P36
Peroxyacetyl nitrate

196.P38
Pesticides
Cf. QH545.P4 Effect on plants and animals

196.P4
Petroleum
Cf. TD427.P4 Petroleum pollution of water
Cf. TD879.P4 Petroleum pollution of soil

196.P45
Phosphates

196.P46
Phosphogypsum

196.P47
Phthalate esters

196.P5
Plastics
Cf. TD798 Plastic waste

196.P53
Platinum group

196.P65
Polychlorinated biphenyls

196.P67
Polyethylene glycols

196.R3
Radioactive pollution
Cf. TD427.R3 Radioactive pollution of water
Cf. TD812+ Municipal radioactive wastes
Cf. TD879.R34 Radioactive pollution of soils
Cf. TD887.R3 Radioactive substances in air
Cf. TD898 Radioactive substances in air

196.R33
Radon

196.S48
Silver

196.S52
Sodium hydroxide

196.S54
Solvents

196.S56
Soot

196.S95
Sulfur

196.T45
Thallium

196.T7
Trace elements

196.T74
Tritium

196.U73
Urea

196.V35
Vanadium

196.W66
Wood waste

196.Z56
Zinc
Water supply for domestic and industrial purposes

Class here works on the supplying of usable water to consumers, including works on the water-supply systems and available resources of specific localities and works dealing with both water supply and sewerage.

For water supply in specific industries, see the industry, e.g. TS1116.2 Paper industry.
For works describing the hydrology of a region without regard to development see GB651+
For water supply and public health see RA591+
For general works on water-supply engineering (including the design and construction of works to procure water), as well as works on the development of the water resources of a watershed see TC401+

For rural water supply see TD927

Periodicals. Societies. Congresses. By language of publication

201 English
202 French
203 German
204 Other languages (not A-Z)
208 Dictionaries and encyclopedias

Communication of water supply information

209 General works
211 Information services

History

215 General works
216 Ancient
217 Medieval
218 Modern
219 Nineteenth century
220 Twentieth century
220.2 Twenty-first century

Country subdivisions

Including all local or departmental reports

America

221 General works
North America

222 General works
United States

223 General works
223.1 Eastern states. Atlantic coast
223.13 Northeastern states
223.15 New England
223.17 Middle Atlantic states
    Including the Chesapeake Bay region
223.2 Appalachian region
223.3 Great Lakes region
223.4 Midwest. Mississippi Valley
223.5 South. Gulf states
223.6 West
223.7 Northwest
223.8 Pacific coast
223.9 Southwest

224.A-.W States, A-W
    e.g.
224.A4 Alaska
224.H3 Hawaii
225.A-Z Cities or other special, A-Z

Canada

226 General works
Water supply for domestic and industrial purposes
Country and city subdivisions
America
  North America
  Canada -- Continued
  227.A-Z Provinces (or other special), A-Z
  227.5 Latin America
  Mexico
  228.A1 General works
  228.A6-Z States, provinces, etc., A-Z
  229.A-Z Local (Cities, etc.), A-Z
  Central America
  230 General works
  231.A-Z Special countries, A-Z
  West Indies
  232 General works
  233.A-Z Special islands, A-Z
  South America
  234 General works
  Argentina
  236.A1 General works
  236.A6-Z States, provinces, etc., A-Z
  237.A-Z Local (Cities, etc.), A-Z
  Bolivia
  238.A1 General works
  238.A6-Z States, provinces, etc., A-Z
  239.A-Z Local (Cities, etc.), A-Z
  Brazil
  241.A1 General works
  241.A6-Z States, provinces, etc., A-Z
  242.A-Z Local (Cities, etc.), A-Z
  Chile
  243.A1 General works
  243.A6-Z States, provinces, etc., A-Z
  244.A-Z Local (Cities, etc.), A-Z
  Colombia
  245.A1 General works
  245.A6-Z States, provinces, etc., A-Z
  246.A-Z Local (Cities, etc.), A-Z
  Ecuador
  Guyana
  Suriname
  French Guiana
  Paraguay
  Peru
  Uruguay
  Venezuela
Europe
  255 General works
  Great Britain. England
  257 General works
  258.A-Z English counties or regions, A-Z
  Ireland
  259 General works
  259.2 Irish Free State. Ireland (Eire)
  259.3 Northern Ireland
Water supply for domestic and industrial purposes

Country and city subdivisions

Europe

Great Britain. England
Ireland -- Continued

260.A-Z Special counties, A-Z
Scotland

261 General works

262.A-Z Special counties, A-Z

263 Wales

264.A-Z Cities or other special, A-Z

Austria

265.A1 General works
265.A6-Z States, provinces, etc., A-Z
265.2.A-Z Local (Cities, etc.), A-Z

Czechoslovakia

265.3.A1 General works
265.3.A6-Z States, provinces, etc., A-Z
265.4.A-Z Local (Cities, etc.), A-Z

Hungary

265.5 General works
265.9.A-Z Special counties, A-Z
266.A-Z Cities or other special, A-Z

Belgium

267.A1 General works
267.A6-Z States, provinces, etc., A-Z
268.A-Z Local (Cities, etc.), A-Z

Denmark

269.A1 General works
269.A6-Z States, provinces, etc., A-Z
270.A-Z Local (Cities, etc.), A-Z

France

271.A1 General works
271.A6-Z States, provinces, etc., A-Z
272.A-Z Local (Cities, etc.), A-Z
272.5 Colonies (Collectively)

Germany

273 General works
273.1 East Germany. Eastern Germany
273.2 Baden-Württemberg
273.3 Bavaria
273.4 Hesse
273.5 Prussia
273.6 Saxony
273.7 North Rhine-Westphalia
273.9.A-Z Other states, A-Z
274.A-Z Cities or other special, A-Z
274.5 Colonies (Collectively)

Greece

275.A1 General works
275.A6-Z States, provinces, etc., A-Z
276.A-Z Local (Cities, etc.), A-Z

Netherlands

277.A1 General works
277.A6-Z States, provinces, etc., A-Z
278.A-Z Local (Cities, etc.), A-Z
Water supply for domestic and industrial purposes
Country and city subdivisions
Europe -- Continued
Italy
279.A1 General works
279.A6-Z States, provinces, etc., A-Z
280.A-Z Local (Cities, etc.), A-Z
280.5 Malta
Norway
281.A1 General works
281.A6-Z States, provinces, etc., A-Z
282.A-Z Local (Cities, etc.), A-Z
Portugal, Azores, etc.
283.A1 General works
283.A6-Z States, provinces, etc., A-Z
284.A-Z Local (Cities, etc.), A-Z
284.5 Colonies (Collectively)
Russia in Europe
285.A1 General works
285.A6-Z States, provinces, etc., A-Z
286.A-Z Local (Cities, etc.), A-Z
Spain
287.A1 General works
287.A6-Z States, provinces, etc., A-Z
288.A-Z Local (Cities, etc.), A-Z
288.5 Scandinavia
Sweden
289.A1 General works
289.A6-Z States, provinces, etc., A-Z
290.A-Z Local (Cities, etc.), A-Z
Switzerland
291.A1 General works
291.A6-Z States, provinces, etc., A-Z
292.A-Z Local (Cities, etc.), A-Z
295.A-Z Other regions and countries, A-Z
295.A2 Balkan Peninsula
295.A38 Albania
295.A44 Alps
295.A48 Andorra
295.B3 Baltic Sea
295.B43 Belarus
295.B45 Benelux countries
295.B9 Bulgaria
295.C37 Carpathian Mountains
295.D35 Danube River
295.F5 Finland
295.I43 Iceland
295.L285 Lapland
295.L37 Latvia
295.L78 Lithuania
295.L9 Luxemburg
295.M4 Mediterranean Region
295.M629 Moldova
295.M68 Montenegro
295.N67 North Sea
295.P7 Poland
Water supply for domestic and industrial purposes
Country and city subdivisions

Europe

Other regions and countries, A-Z -- Continued

295.P75  Pomerania (Poland and Germany)
295.R48  Rhine River
295.R6   Romania
295.S55  Slovenia
295.T48  Thrace
295.U95  Ukraine
295.Y8   Yugoslavia

Asia

299  General works

China
  For Hong Kong see TD313.H85

301.A1  General works
301.A6-Z States, provinces, etc., A-Z
302.A-Z  Local (Cities, etc.), A-Z

Taiwan

302.5.A1  General works
302.5.A6-Z States, provinces, etc., A-Z
302.6.A-Z  Local (Cities, etc.), A-Z

South Asia

302.9  General works

India

303.A1  General works
303.A6-Z States, provinces, etc., A-Z
304.A-Z  Local (Cities, etc.), A-Z

Pakistan

304.5.A1  General works
304.5.A6-Z States, provinces, etc., A-Z
304.6.A-Z  Local (Cities, etc.), A-Z

Bangladesh

304.65.A1  General works
304.65.A6-Z States, provinces, etc., A-Z
304.66.A-Z  Local (Cities, etc.), A-Z

Sri Lanka. Ceylon

304.7.A1  General works
304.7.A6-Z States, provinces, etc., A-Z
304.8.A-Z  Local (Cities, etc.), A-Z

Japan

305.A1  General works
305.A6-Z States, provinces, etc., A-Z
306.A-Z  Local (Cities, etc.), A-Z

Korea
  Including South Korea

306.5.A1  General works
306.5.A6-Z States, provinces, etc., A-Z
306.6.A-Z  Local (Cities, etc.), A-Z

North Korea

306.7.A1  General works
306.7.A6-Z States, provinces, etc., A-Z
306.8.A-Z  Local (Cities, etc.), A-Z

Iran. Persia

307.A1  General works
307.A6-Z States, provinces, etc., A-Z
Water supply for domestic and industrial purposes
Country and city subdivisions
Asia
Iran, Persia -- Continued
Local (Cities, etc.), A-Z
Russia in Asia. Siberia
308.A-Z

309.A1
General works
309.A6-Z
States, provinces, etc., A-Z
310.A-Z
Local (Cities, etc.), A-Z
Turkey. Asia Minor

311.A1
General works
311.A6-Z
States, provinces, etc., A-Z
312.A-Z
Local (Cities, etc.), A-Z
313.A-Z
Other divisions of Asia, A-Z

313.A3
Afghanistan
313.A98
Azerbaijan
313.B47
Bhutan
313.B54
Borneo
313.B7
Brunei
313.B8
Burma, Myanmar
313.C16
Cambodia
313.C9
Cyprus
313.G39
Gaza Strip
313.H85
Hong Kong
313.I55
Indonesia
313.I7
Iraq
313.I75
Israel
313.J6
Jordan
313.K85
Kuwait
313.L28
Laos
313.L4
Lebanon
313.M2
Macau
313.M318
Malaya
313.M32
Malaysia
313.M45
Mekong River Valley
313.M65
Mongolia
Myanmar see TD313.B8
313.N4
Nepal
313.P6
Philippines
313.Q36
Qatar
313.S33
Saudi Arabia
313.S53
Singapore
313.S6
Southeast Asia
313.S94
Syria
313.T48
Thailand
313.U54
United Arab Emirates
313.V5
Vietnam
313.W48
West Bank
313.Y45
Yemen (People’s Democratic Republic)
313.5
Middle East
314
Arab countries
314.5
Islamic countries
Africa
315
General works
Egypt
317.A1
General works
Water supply for domestic and industrial purposes
Country and city subdivisions
Africa
  Egypt -- Continued
  317.A6-Z States, provinces, etc., A-Z
  318.A-Z Local (Cities, etc.), A-Z
  319.A-Z Other divisions of Africa, A-Z
  319.A4 Algeria
  319.A5 Angola
  319.B57 Botswana
  319.B85 Burundi
  319.C15 Cabo Verde
  319.C17 Cameroon
  319.C42 Central Africa
  319.C43 Central Africa Republic
  319.C75 Congo (Brazzaville)
    Congo (Democratic Republic) see TD319.Z3
    Côte d'Ivoire see TD319.I9
  319.D3 Dahomey
  319.D55 Djibouti
  319.E18 East Africa
  319.E19 Eastern Africa
  319.E77 Eswatini
  319.E8 Ethiopia
  319.F82 French-speaking Equatorial Africa
  319.F83 French-speaking West Africa
  319.G23 Gabon
  319.G45 Ghana
  319.G92 Guinea
  319.G94 Guinea-Bissau
  319.I9 Ivory Coast. Côte d'Ivoire
  319.K4 Kenya
  319.L45 Lesotho
  319.L49 Liberia
  319.L74 Libya
  319.M28 Madagascar
  319.M3 Malawi
  319.M34 Mali
  319.M39 Mauritania
  319.M6 Morocco
  319.M85 Mozambique
    Namibia see TD319.S68
  319.N53 Niger
  319.N54 Nigeria
  319.N6 Nile River Valley
  319.N67 North Africa
  319.R45 Rhodesia, Southern. Zimbabwe
  319.R9 Rwanda
  319.S18 Sahel
  319.S4 Senegal
  319.S5 Sierra Leone
  319.S59 Somalia
  319.S6 South Africa
  319.S64 Southern Africa
  319.S68 Southwest Africa. Namibia
  319.S73 Sub-Saharan Africa
Water supply for domestic and industrial purposes

Country and city subdivisions

Africa

Other divisions of Africa, A-Z -- Continued

319.S74 Sudan
(319.S87) Swaziland

see TD319.E77

319.T35 Tanzania
319.T64 Togo
319.T8 Tunisia
319.U4 Uganda
319.U66 Upper Volta
319.W48 West Africa
319.Z3 Zaire. Congo (Democratic Republic)
319.Z34 Zambia

Zimbabwe see TD319.R45

Indian Ocean islands

320 General works
320.5.A-Z Special islands, A-Z
320.5.M38 Mauritius
320.5.R48 Réunion

Australasia

320.7 General works
Australia

321.A1 General works
321.A6-Z States, provinces, etc., A-Z
322.A-Z Local (Cities, etc.), A-Z

New Zealand

322.5.A1 General works
322.5.A6-Z States, provinces, etc., A-Z
322.6.A-Z Local (Cities, etc.), A-Z

322.7 Papua New Guinea

Pacific islands

323 General works
324.A-Z By island, A-Z

Arctic regions

325 General works
325.5 Greenland
326 Antarctica
326.5 Tropics
327 Developing countries

General works

344 Early to 1800
345 1800-
346 Elementary textbooks
348 Popular works. Juvenile works
351 Pocketbooks, tables, etc.
353 General special
355 Addresses, essays, lectures
357 Study and teaching
358 Safety measures

Including safety measures for utilities and waterworks

360 Water rates

For local see TD221+
Cf. TD499+ Meters
Water supply for domestic and industrial purposes -- Continued

Water quality management
For local see TD221+

365
General works

365.5
Biomanipulation

Water quality monitoring
For local see TD221+

367
General works

368
Particle counting

Qualities of water. Water quality
For local see TD221+

370
General works

372
Softness

374
Hardness and its correction
Chemical purification see TD451+

375
Sensory qualities

Examination and analysis of water
Including results
For specific pollutants of water see TD427.A+
Cf. GB855+ Natural water chemistry

380
General works
Chemical see QD142

384
Microscopical. Bacteriological

387.A-Z
Special bodies of water, A-Z
For water supplies of a special region or city see TD221+

Water conservation
For special methods of conservation, see the method, e.g. SB439.8, Drought-tolerant plants;
SB475.83, Landscape architecture; TD397, Evaporation control in reservoirs; TC401-TC558,
Water resources development; TD495-TD497, Location of leaks in mains
For local see TD221+

388.A1
Periodicals, societies, congresses, etc.

388.A5-Z
General works

388.5
General special

388.7
Study and teaching

Sources of water supply
Cf. GB651+ Hydrology

390
General works

392
Rivers, lakes, ponds, etc.
Reservoirs
For dams and their construction see TC540+
For special reservoirs see TD221+
Cf. QH96.8.R35 Reservoir drawdown (Freshwater biology)
Cf. QH541.5.R4 Ecology
Cf. TD195.R47 Environmental effects

395
General works

396
Sedimentation

397
Evaporation control

398
Aqueducts, conduits, etc.

Groundwater
For local see TD221+
Cf. GB1001+ Hydrology
Cf. TD426+ Pollution of groundwater

403
General works

404
Artificial recharge
Cf. TD765 Disposal of sewage effluent

404.5
Aquifer storage recovery
Water supply for domestic and industrial purposes

Sources of water supply

Groundwater -- Continued

404.7
Qanats
Wells
For local see TD221+
Cf. TD426.8 Water pollution

405
General works

407
General special
Including standards

410
Artesian wells

412
Well digging and boring

414
Boring machinery
Including catalogs
Pumps see TJ899+

415
Dew and fog
For dew ponds see TD395

418
Rainwater (Collection and use)

Water pollution
Cf. GC1080+ Marine pollution
Cf. QH545.W3 Effect on plants and animals
Cf. RA591+ Public health

419
Periodicals. Societies. Serials

419.5
Congresses

420
General works

422
Juvenile works

423
General special

Study and teaching

424
General works
By region or country
United States

424.3
General works

424.35.A-Z
By region or state, A-Z

424.4.A-Z
Other regions or countries, A-Z

424.5
Research

424.8
Nonpoint source pollution
For local see TD221+

425
Pollution of streams
For effect of oil pollution on marine organisms see QH91.8.O4
For pollution of special water supplies and bodies of water see TD221+
For sewage effluent disposal into streams, etc. see TD763+
For sewage sludge disposal into streams, etc. see TD771.5

Pollution of groundwater

426
General works

426.8
Wells

427.A-Z
Specific pollutants and organisms, A-Z
Including presence of naturally occurring substances

427.A27
Acid deposition

427.A28
Acid mine drainage

427.A35
Agricultural chemicals

427.A45
Aluminum

427.A68
Aquatic pests
Cf. SH174.5+ Fish culture

427.A77
Arsenic

427.A84
Atmospheric deposition

427.A86
Atrazine
Water supply for domestic and industrial purposes

Water pollution

Specific pollutants and organisms, A-Z -- Continued

427.B37  Bacteria
427.B67  Boron
427.B75  Bromate
427.C33  Cadmium
427.C37  Carbon dioxide
427.C48  Cesium
427.C54  Chemical weapons
427.C57  Chromium
427.C66  Copper
427.C78  Cryptosporidium
427.C9  Cyanides
427.C92  Cyanobacteria
427.D34  DDT (Insecticide)
427.D4  Detergents. Surfactants
427.D47  Dibutyltin
427.D52  Dibromochloropropane
427.D53  Diclofenac
427.D547  Dibromochloropropane
427.D55  Dioxins
427.D77  Drugs
427.E68  Enterobacteriaceae
427.E82  Estrogen
427.E83  Ethylene dibromide
427.F45  Fertilizers
427.F54  Fluorides
427.F58  Fly ash
427.F68  Fouling organisms
427.F85  Fungi
427.G55  Glyphosate

Halogenated hydrocarbons see TD427.H93

427.H3  Hazardous substances
427.H4  Heat pollution

Heavy metals see TD427.M44
427.H46  Herbicides
427.H49  Hexazinone
427.H85  Humus

427.H93  Hydrocarbons

Including halogenated hydrocarbons and polycyclic aromatic hydrocarbons

427.I55  Inorganic compounds
427.M35  Marine debris
427.M4  Mercury
427.M44  Metals

Including heavy metals

427.M53  Microorganisms
427.M93  Mycobacterium avium
427.N5  Nitrogen and nitrogen compounds
427.N87  Nutrients
427.O7  Organic compounds
427.P27  Particles
427.P33  Perchlorates
427.P35  Pesticides
427.P4  Petroleum

Cf. SH177.O53 Effect on fish culture
Water supply for domestic and industrial purposes

Water pollution

Specific pollutants and organisms, A-Z -- Continued

427.P53
Phenols

427.P56
Phosphorus and phosphorus compounds

427.P62
Plastic scrap

427.P63
Plutonium

427.P646
Polybrominated diphenyl ethers

427.P65
Polychlorinated biphenyls

427.P67
Polycyclic aromatic hydrocarbons see TD427.H93

427.P67
Polypelectrolytes

427.R3
Radioactive substances

427.S24
Salt

427.S33
Sediment

427.S38
Selenium

427.S94
Sulfur and sulfur compounds

427.T42
Technetium

427.T7
Thermal pollution see TD427.H4

427.T73
Trace elements

427.T75
Tributyltin

427.T77
Trichloroethylene

427.V36
Vanadium

427.V55
Viruses

427.V64
Volcanic ash, tuff, etc.

427.Z43
Zebra mussel

Sources of pollution, A-Z

Class here works that limit their discussions to wastes from specific industries, facilities, etc., as pollutants of water

For nonpoint source pollution see TD424.8

For waste disposal and control in specific industries see TD899.A+

428.A37
Agriculture

428.A48
Aluminum mines and mining. Bauxite mines and mining

428.A68
Aquaculture

428.A86
Atomic power plants

428.B34
Ballast water. Ballast water treatment facilities

428.B75
Bauxite mines and mining see TD428.A48

428.C58
Bridge deck runoff

428.C6
Coal-fired power plants

428.C64
Coal mines and mining

428.C66
Construction industry

428.C66
Copper mines and mining

428.D74
Dredging. Dredging spoils

428.D78
Dry cleaning industry

428.F57
Fire extinguishing agents

428.F67
Forestry

428.G64
Gold mines and mining

428.I74
Iron mines and mining

428.L35
Land use

428.M47
Metallurgical plants

428.M49
Methane industry
Water supply for domestic and industrial purposes

Water pollution

Sources of pollution, A-Z -- Continued

428.M56  Mineral industries
428.M68  Motorboat racing
        Nuclear power plants see TD428.A86
428.O33  Offshore oil industry
428.O35  Oil sands extraction plants
428.P35  Paper industry
428.P47  Petroleum refineries
428.P54  Pharmaceutical industry
428.P67  Power plants
428.R63  Road construction
        Runoff, Bridge deck see TD428.B75
428.R84  Runoff from roads
428.S47  Sewerage. Sewage disposal plants
428.S55  Ships
428.S58  Ski resorts
428.S64  Soil management
428.T78  Trucking
428.U73  Uranium mines and mining
428.W65  Woodpulp industry
429  Water reuse

Water purification. Water treatment and conditioning

Cf. RA591+ Public health
Cf. TD485+ Waterworks, etc.
Cf. TD745+ Purification of sewage

429.5  Periodicals, societies, congresses, etc.
430  General works
433  General special
434  Water treatment plants
Special methods
Mechanical treatment

437  General works
439  Screening. Settling. Sedimentation
        Including sedimentation tanks and basins
        Cf. TD455 Coagulation
Filtration

441  General works
442  Direct filtration
442.5  Membrane filtration
443  Natural filtration
444  Roughing filtration
445  Sand filtration
446  Diatomaceous earth filtration
447  Filter basins and plants
449  Domestic filters
449.5  Adsorption
Chemical treatment

451  General works
455  Chemical precipitation. Coagulation. Flocculation
457  Odor control
458  Aeration
        Disinfection
        General works
460  Ultraviolet ray treatment
Water supply for domestic and industrial purposes
Water purification. Water treatment and conditioning

Special methods
Chemical treatment
Disinfection -- Continued

461
Ozone treatment
Chlorination

462
General works

463
Hypochlorite treatment

464
Chlorine dioxide

464.5.A-Z
Other, A-Z

465
Algae control by copper sulfate and other chemicals

466
Removal of dissolved minerals. Water softening
Cf. TD478+ Saline water conversion

467
Fluoridation

468
Other methods
Including color removal, stabilization, nitrification

471
Electrolytic treatment

473
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475
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879.I55
Inorganic compounds
879.L43
Lead
879.M47
Metals
879.O73
Organic compounds
879.P37
Pesticides
Cf. S592.6.P43 Behavior and movement in soils
Cf. SB951.145.S65 Soil pesticides
879.P4
Petroleum. Oil pollution
879.P64
Polychlorinated biphenyls
879.P66
Polycyclic aromatic hydrocarbons
879.R34
Radioactive pollution
879.S85
Sulfates
880.A-Z
Special industries, facilities, activities, etc., A-Z
880.L35
Land use
Special types of environment -- Continued

Air pollution and its control
  Cf. HC79.A4 Economic aspects
  Cf. QC882+ Atmospheric pollutants
  Cf. QH545.A3 Influence on plants and animals
  Cf. QP82.2.A3 Physiological effect
  Cf. RA576+ Public health

881  Periodicals, societies, congresses, etc.
881.5  Dictionaries and encyclopedias
882  Directories
883  General works
883.1  General special
883.13  Juvenile works
883.14  Addresses, essays, lectures
  Study and teaching
    General works
      By region or country
        United States
  883.144  General works
  883.145.A-Z  By region or state, A-Z
  883.148.A-Z  Other regions or countries, A-Z
883.15  Research
883.17  Indoor air pollution
  Including indoor air quality
Special regions or countries
  United States
  883.2  General works
  883.5.A-Z  By region or state, A-Z
    Subarrange each state by Table T4a
  883.7.A-Z  Other regions or countries, A-Z
    Subarrange each country by Table T4a
Particular air pollutants and their control

884  Smoke
  Cf. QC882.6 Meteorology
  Cf. TH1088.5 Smoke control systems
  Cf. TH2281+ Chimneys
  884.3  Smog. Fog-pollutant mixtures
  884.5  Dusts, fumes, and mists; particulate matter
    Cf. QC882.5 Meteorology
Gases. Flue gases

885  General works
  885.5.A-Z  Individual gases and groups of gases, A-Z
    Carbon dioxide
      Including carbon sequestration technologies
        Cf. QE516.C37 Carbon sequestration by natural causes
  885.5.C33  Carbon monoxide
    Carbon sequestration technologies see TD885.5.C3
  885.5.C47  Chlorine
  885.5.C5  Chlorofluoromethane
  885.5.C66  Combustion gases
  885.5.F57  Fluorine
  885.5.F67  Formaldehyde
  885.5.G73  Greenhouse gases
  885.5.H9  Hydrogen sulfide
  885.5.L35  Landfill gases
  885.5.M48  Methane
Special types of environment
Air pollution and its control
Particular air pollutants and their control
Gases. Flue gases
   Individual gases and groups of gases, A-Z -- Continued

885.5.N38
   Natural gas
885.5.N5
   Nitrogen oxides
885.5.O74
   Organic compounds
885.5.O85
   Ozone
885.5.R33
   Radon
885.5.S8
   Sulfur dioxide
885.5.S85
   Sulfur oxides
886
   Odors
886.5
   Automobile exhaust
      Including emissions from motor vehicles in general
      Cf. TL214.P6 Pollution control devices for motor vehicles
886.6.A-Z
   Special topics, A-Z
886.6.C66
   Constant volume sampling
886.7
   Aircraft exhaust emissions
886.8
   Diesel exhaust
887.A-Z
   Other pollutants, A-Z
887.A37
   Acrylonitrile
887.A66
   Ammonia
887.A8
   Asbestos
887.B43
   Benzene
887.B45
   Benzopyrene
887.B58
   Bituminous materials
887.C34
   Cadmium
887.C37
   Carbon disulfide
887.C47
   Chlorofluorocarbons
887.D56
   Dioxins
887.E64
   Epichlorohydrin
887.E83
   Ethylene dichloride
887.F48
   Fibers
887.F63
   Fluorides
887.F67
   Fluorocarbons
887.F69
   Fossil fuels
887.H3
   Halocarbons
887.H4
   Heavy metals
887.H46
   Hexane
887.H48
   Hexylene glycol
887.H93
   Hydrocarbons
887.I56
   Inorganic compounds
887.L4
   Lead
887.M34
   Manganese
887.M37
   Mercury
887.M4
   Metals
887.O95
   Ozone-depleting substances
887.P34
   Peat
887.P45
   Pesticides
887.P65
   Polllen
887.P69
   Polybrominated diphenyl ethers
887.P695
   Polycyclic aromatic hydrocarbons
887.R3
   Radioactive metals
887.S78
   Sulfates
887.S82
   Sulfur
Special types of environment
Air pollution and its control
  Particular air pollutants and their control
  Other pollutants, A-Z -- Continued
  Trichloroethylene
  Vinyl chloride
  Volatile organic compounds
Sources of pollution, A-Z
  Cf. TD889.A+ Waste control in special industries and plants
  Aerospace industries
  Agriculture
  Aluminum plants
  Asphalt plants
  Breweries
  Cement plants
  Chemical plants
  Coaling stations
  Coffee processing plants
  Construction industry
  Copper industry and trade
  Cotton gins
  Electric power-plants
  Factories
  Fertilizer industry
  Foundries
  Gas manufacture and works
  Heating plants
  Hydrochloric acid plants
  Machinery industry
  Metallurgical plants
  Nuclear facilities
  Nuclear power plants see TD888.E43
  Oil sands extraction plants
  Petroleum chemicals industry
  Petroleum refineries
  Power plants
  Printed circuits industry
  Pulp and paper mills
  Reactor fuel reprocessing plants
  Resource recovery facilities
  Road construction, maintenance, and repair
  Roofing industry
  Sewage disposal plants
  Ships
  Solvents industry
  Steam power plants
  Steelworks
  Sugar factories
  Sulfuric acid plants
  Wood industry. Lumber industry
  Cf. TD888.P8 Pulp and paper mills
Air pollution control equipment
  Cf. TH7692+ Dust removal (by pneumatic suction, etc.)
Measurement. Air sampling and analysis
  For measurement or analysis of specific pollutants see TD884+
Noise and its control
Noise and its control -- Continued

891  Periodicals, societies, congresses, etc.
891.5  Directories
892  General works
892.5  Juvenile works
Special countries
United States
893  General works
893.3.A-Z  By region or state, A-Z
893.5.A-Z  Other regions or countries, A-Z
893.6.A-Z  Special industries, facilities, activities, etc., A-Z
893.6.A57  Airplanes
          Cf. TL671.65 Aeronautical engineering
893.6.B58  Blast furnaces
893.6.B68  Bottling plants
893.6.C45  Chemical plants
893.6.C6  Construction industry
893.6.C78  Crushed stone industry
893.6.D94  Dwellings
893.6.E4  Electric lines
893.6.F58  Flour mills
893.6.F64  Food industry
893.6.F65  Forge shops
893.6.G37  Gasworks
893.6.G7  Grain elevators
893.6.M3  Machine shops
893.6.M35  Materials handling
893.6.M43  Meat industry
893.6.M45  Metalwork
893.6.M5  Mineral industries
893.6.O34  Offices
893.6.P35  Paper industry
893.6.P47  Petroleum refineries
893.6.P55  Pipe industry
893.6.P68  Power plants
893.6.P74  Precast concrete industry
893.6.P75  Printing plants
893.6.Q35  Quarries and quarrying
893.6.R3  Railroads
893.6.S48  Sewage disposal plants
893.6.T4  Textile industry
893.6.T7  Transportation
893.6.T86  Tunneling
893.6.W37  Water treatment plants
893.6.W65  Woodworking industries
894  Noise measurement
Industrial and factory sanitation
          Cf. HD3656+ Factory inspection
          Cf. HD7260+ Industrial hygiene (Administrative aspects)
          Cf. T55+ Industrial safety
          Cf. TS193 Plant housekeeping
895  General works
Industrial and factory wastes
          Cf. HD30.255 Environmental aspects of industrial management
896  Periodicals, societies, congresses, etc.
897  General works
Industrial and factory sanitation
Industrial and factory wastes -- Continued

897.5
General special

897.6
Industrial waste treatment facilities
  Including centralized facilities

Special regions or countries
  United States

897.7
General works

897.75.A-Z
By region or state, A-Z

897.8.A-Z
Other regions or countries, A-Z

Special topics

897.842
Biodegradation

897.843
Incineration

897.845
Recycling

897.847
Waste minimization

Special wastes and their disposal
Radioactive waste disposal
  For municipal radioactive waste see TD812+
  For municipal and industrial hazardous wastes see TD1020+
  For temporary storage at the facility see TK9152.165
  Cf. TK9152.17 Transportation of radioactive substances

897.85
Periodicals, societies, congresses, etc.

898
General works

By region or country
  United States

898.118
General works

898.12.A-Z
By region or state, A-Z

898.13.A-Z
Other regions or countries, A-Z
  Subarrange each country by Table T4a

Special topics, A-Z
  For local see TD898.118+

Biodegradation

898.14.E36
Economic aspects

898.14.E58
Environmental aspects

898.14.E83
Evaluation

898.14.G46
Geochemistry

898.14.G47
Geology
  Cf. TD898.2 Disposal in the ground

898.14.G68
Government policy

International cooperation

898.14.M35
Management

898.14.M36
Mathematical models

898.14.R57
Risk assessment

898.14.S34
Safety measures

898.14.S63
Social aspects

Radioactive waste sites
  For local see TD898.118+
  Cf. TK9152.2 Decontamination. Decommissioning of facilities

898.15
General works

898.155.A-Z
Special topics, A-Z

898.155.D47
Design and construction

898.155.E83
Evaluation

898.16
Radioactive waste treatment facilities (General)
  For local see TD898.118+

Special disposal methods
  For temporary storage at the facility see TK9152.165
Industrial and factory sanitation
  Industrial and factory wastes
  Special wastes and their disposal
  Radioactive waste disposal
    Special disposal methods -- Continued
  898.17  General works
  898.173 Bituminization
  898.175 Incineration
  898.178 Transmutation
  898.179 Vitrification
  898.18 Stabilization. Solidification
  898.2 Disposal in the ground
    For local see TD898.118+
  898.4 Disposal in the water
    For local see TD898.118+
  898.6 Disposal under the seabed
    For local see TD898.118+
  898.7.A-Z Special substances, A-Z
  898.7.A46 Alpha-bearing wastes
  898.7.P48 Plutonium
  898.8.A-Z Other wastes, A-Z
  898.8.A76 Arsenic wastes
  898.8.C67 Corrosive wastes
  898.8.M47 Metal wastes
  898.8.P45 Pentachlorophenol
  898.8.P64 Polychlorinated biphenyls
  898.8.S65 Solvent wastes
  899.A-Z Waste control in special industries, plants, processes, etc., A-Z
    Cf. TD428.A+ Pollution of water by special industries, etc.
    Cf. TD888.A+ Air pollution by special industries, etc.
    Agriculture see TD930+
  899.A44 Aluminum industry
  899.A76 Arsenals
  899.A8 Atomic power plants
  899.A96 Automobile repair shops
  899.B48 Beverage container industry
  899.C25 Cadmium industry
  899.C27 Camp sites, facilities, etc.
  899.C3 Canneries
  899.C38 Cement industries
    For recycling of cement and concrete in construction see TA439.5
  899.C5 Chemical industry
  899.C55 Citrus processing plants
  899.C57 Clay industries
  899.C58 Cleaning and dyeing industry
  899.C585 Coal liquefaction
  899.C588 Coal preparation plants
  899.C5885 Construction industry
  899.C59 Copper industry
  899.C6 Cotton industry
  899.D3 Dairy plants. Milk plants
  899.D46 Dental offices. Dental clinics
  899.D5 Distilleries
  899.F4 Feedlots
  899.F47 Fertilizer industry
  899.F5 Fisheries
Industrial and factory sanitation
Industrial and factory wastes
Waste control in special industries, plants, processes, etc., A-Z -- Continued

899.F57 Fishery processing industries
899.F585 Food industry
899.F6 Foundries
899.F7 Fruit processing plants
899.G3 Gas industry
899.G47 Glass fiber industry
899.G63 Gold industry
899.G85 Gums and resins industry
Health facilities see RA969.45
899.H65 Hotels
899.L32 Laboratories
899.L37 Laundries
899.M2 Machinery industry
899.M29 Manufactures
899.M4 Meat industry. Packinghouses. Slaughterhouses
899.M43 Metallurgical plants
899.M45 Metalworking and finishing industry
Milk plants see TD899.D3
899.M47 Mineral industries
899.M5 Mines
Nuclear power plants see TD899.A8
899.O54 Oil industries
Packinghouses see TD899.M4
899.P25 Paint industry and trade
899.P3 Paper industry
899.P37 Pesticides industry
899.P4 Petroleum industry
899.P45 Phosphate industry
899.P46 Phosphoric acid industry
899.P48 Photographic industry
899.P55 Plastics industry
899.P6 Potato chip industry
899.P65 Poultry industry
899.P69 Printed circuits industry
899.P7 Printing industry
899.R26 Railroads
899.R3 Reactor fuel reprocessing plants
899.R34 Refractories industry
899.R8 Rubber industry
Seafood processing see TD899.F57
899.S46 Service stations
899.S55 Shipbuilding industry. Shipyards
Slaughterhouses see TD899.M4
899.S68 Steam power plants
899.S7 Steelworks
899.S8 Sugar industry
899.T3 Tanneries
899.T4 Textile industry
899.T55 Tile industry
899.U73 Uranium industry
899.W3 Water treatment plants
899.W6 Wood industry
899.W65 Woodpulp industry
Industrial and factory sanitation
Industrial and factory wastes
Waste control in special industries, plants, processes, etc., A-Z -- Continued

899.W73
Sanitary engineering as applied to buildings
see TH6014+

(905) General works
(909) General special
(913) House drainage
       see TH6571+
(915) Earth closets
       see TD776
(918) Sanitary inspection
       see RA565+

Rural and farm sanitary engineering
Including all small isolated plants for country and farmhouses, etc.
For local see TD21+

920 General works
923 General special
927 Water supply
       For local see TD221+

Sewage and refuse disposal and drainage
       For local see TD521+

929 General works
930 Agricultural wastes
930.2 Animal waste
930.3 Crop residues
930.4 Dairy waste
       Pesticide waste see TD1066.P47

931 Parks, recreation areas, campgrounds, etc.
       Cf. GV198.S3 Sanitation of organized camps
       Cf. RA604 Environmental health

(935) Sanitary engineering of other isolated plants
       see TH6057+

Low temperature sanitary engineering

940 General works
943 General special
947 Water supply
949 Sewage and refuse disposal and drainage

(1015) Washhouses and public laundries
       see TH6057.L3

Hazardous substances and their disposal
Including both municipal and industrial hazardous wastes other than radioactive
For municipal radioactive wastes see TD812+
For industrial radioactive waste see TD897.85+

1020 Periodicals, societies, congresses, etc.
1024 Directories
1030 General works
1030.5 Juvenile works
1032 Handbooks, manuals, etc.
By region or country
   United States
   General works
1040
1042.A-Z By region or state, A-Z
       Subarrange each state by Table T4a
Hazardous substances and their disposal
By region or country -- Continued

1045.A-Z Other regions or countries, A-Z
Subarrange each country by Table T4a

1050.A-Z Special topics, A-Z
For local see TD1040+
1050.C57 Citizen participation
1050.C65 Classification
1050.C67 Cost control
1050.E58 Environmental aspects
1050.P64 Political aspects
1050.R57 Risk assessment
1050.S24 Safety measures
1050.T43 Technological innovations
1050.T73 Tracking
1050.W36 Waste minimization

1052 Hazardous waste sites (General)
For local see TD1040+

1054 Hazardous waste treatment facilities (General)
Including surface impoundments
For local see TD1040+
Special disposal methods
1060 General works
1061 Biodegradation
1062 Incineration
1063 Stabilization. Solidification
1064 Land disposal
Including deep geologic disposal

1066.A-Z Special substances, A-Z
1066.D45 Dense nonaqueous phase liquids
1066.G48 Glycols
1066.L57 Lithium
1066.M46 Metals
1066.O55 Oil
1066.O73 Organic compounds
1066.P47 Pesticides
1066.P64 Polychlorinated biphenyls
Highway engineering. Roads and pavements

Cf. HD9717.5.R6+ Road construction industry
Cf. HE331+ Traffic engineering; economics of roads
Cf. QH545.R62 Environmental effects
Cf. TD888.R62 Air pollution

Periodicals, societies, etc. By language of publication

1.A1 International or polyglot
1.A3-Z English
2 French
3 German
4 Other languages (not A-Z)
5 Congresses

Exhibitions. Museums

6.A1 General works
6.A2-Z By region or country, A-Z
   Subarrange each country by Table T4b

7 Collected works (nonserial)

9 Dictionaries and encyclopedias

12 Directories

History
15 General works
16 Ancient
17 Medieval
18 Modern to 1800
19 1800-

21-127 Country divisions (Table T1a modified)
   Add country number in table to TE0
   Class government publications with "General works"
   Class special roads with "Local or special, A-Z" (or similar captions)
   Class special roads limited to a particular province, city, etc. with the province, city, etc.
America
   North America
   United States
      For works on federal aid to highways see HE355+

25.5.A-Z Special roads not limited to one state or region. By name, A-Z

Biography
139 Collective
140.A-Z Individual, A-Z
   e.g.
   140.M3 MacAdam

General works
144 Early to 1800
145 1800-
147 Elementary textbooks
149 Juvenile works
151 Pocketbooks, tables, etc.
153 General special
155 Addresses, essays, lectures

175 Road and highway design
   Including drawings and designs

Interchanges and intersections
176 General works
176.3 Left-turn lanes
176.5 Traffic circles
176.8 Motor vehicle scales

Roadside development. Landscaping
Roadside development. Landscaping -- Continued

177  
   General works
178  
   Vegetation
178.8  
   Rest areas
180  
   Specifications
183  
   Estimates, quantities, and costs
185  
   Records, timekeeping, etc.
      For accounts and accounting see HF5686.R6
191  
   Study and teaching
192  
   Highway research
195  
   Highway engineering management
   Materials for roadmaking (stone, etc.)
200  
   General works
203  
   General special
      Including road-marking materials
205  
   Testing and inspection. Laboratory manuals
Location engineering
206  
   General works
   Soil surveys
      Including physical tests, analysis of subgrade soils, soil profiles, etc.
208  
   General works
208.5  
   Trafficability of soils
   Road surveys
209  
   General works
209.5  
   Aerial surveys
Construction details
   Foundations
210  
   General works
   Soil stabilization
      Including soil compaction
      Cf. S593.23 Agriculture
      Cf. TA749 Earthwork
210.4  
   General works
210.5.A-Z  
   Special methods and materials, A-Z
210.5.B5  
   Bitumen
210.5.C3  
   Calcium chloride
210.5.F55  
   Fly ash
210.5.L5  
   Lime
210.5.S3  
   Salt
210.5.S6  
   Soil cement
210.8  
   Fills and embankments
211  
   Subgrade structure
212  
   Base course
212.5  
   Shoulders
213  
   Culverts and small bridges
      Cf. TF282 Railroad engineering
215  
   Drainage
216  
   Bridge approaches
Maintenance and repair
   Cf. TD813+ Street cleaning
220  
   General works
220.3  
   Overlays
220.5  
   Snow and ice control on roads and highways
      Cf. TD868+ Control of snow and ice on streets
220.55  
   Roadside litter control
      Cf. TD813+ Street litter and its removal
Maintenance and repair -- Continued

220.63 Dust control
221 Road binders, dust preventives, etc., for unpaved roads
   Including bituminous materials
   Machinery, road rollers, etc.
223 General works
227 Catalogs
228 Safety and traffic control devices
   Cf. HE370.A+ Traffic regulations
   Cf. TE203 Road-marking materials
   Communication systems
   Including intelligent transportation systems
228.3 General works
228.37 Vehicular ad hoc networks
228.5 Low-volume roads
228.7 Frontage roads
   Country roads
   Cf. TE280+ Paths
229 General works
229.2 Farm roads
229.5 Forest roads
   Cf. SD389 Forestry
229.8 Mountain roads
229.9 Scenic byways
   Special kinds of unpaved roads
230 Dirt roads. Earth and sand roads
233 Gravel
235 Broken stone
237 General works
239 Stonebreaking for roads
237 Stonecrushers for road material
241 Telford roads
243 Macadam roads
244 Tarred roads (Construction)
245 Other varieties
   Including plank roads
247 Ice roads. Ice crossings. Ice bridges
   Pavements and paved roads
250 General works
251 Design
251.5 Performance
252 Specifications
253 Wood
255 Brick
259 Stone
257 General works
259 Cobblestone
261 General works
   Stone blocks
263 Belgian
265 Oblong
   Bituminous pavements
   Cf. TE221 Road-binders, dust preventives, etc.
   Cf. TE244 Tarred roads (Construction)
266 Congresses
270 General works
Pavements and paved roads
  Bituminous pavements -- Continued
  273  Asphalt mixing machinery and plants
  275  Asphalt and asphalt mixtures
  276  Asphalt block
Concrete roads and pavements
  Including reinforced concrete
  278  General works
  278.2  Joints
  278.6  Prestressed concrete
  278.8  Precast concrete
  279  Streets
  279.3  Driveways
Pedestrian facilities
  Cf. NA9074 Architecture
  279.5  General works
Sidewalks. Footpaths. Flagging
  Cf. TH4970 Garden walks
  280  General works
  283  Earth, gravel, cinder
  285  Wood
  287  Brick
  289  Stone
  291  Cement. Concrete
  293  Asphalt
  295.A-Z  Other, A-Z
  298  Curbs. Curbstones
  301  Bicycle paths and tracks
  303  Equestrian roads
  304  Trails
  305  Racetracks for automobiles (Construction)
(315-427)  Laws and legislation
  see class K
  450  Hauling tests. Traction tests
Railroad engineering and operation
   Cf. HE1001+ Economic aspects of railroads
   Cf. TD893.6.R3 Noise control
Periodicals and societies. By language of publication
1  English
2  French
3  German
4  Other languages (not A-Z)
5  Congresses
6.A1  Exhibitions. Museums
   General works
6.A2-Z  By region or country, A-Z
   Subarrange each country by Table T4b
7  Collected works (nonserial)
9  Dictionaries and encyclopedias
12  Directories, etc.
   For directories of U.S. railroads see HE2721
   For directories of other railroads see HE2801+
   For directories of supply dealers see TF355
   For directories of purchasing agents see TF359
History
15  General works
16  Antiquities
   Including early curiosities of railroad development and horse railroads
19  Nineteenth century
20  Twentieth century
21-127  Country divisions (Table T1a)
   Add country number in table to TF0
   Class here only technical works, including works on the physical plants of individual railroads
Biography
139  Collective
140.A-Z  Individual, A-Z
General works
144  Early to 1850
145  1850-
146  Elementary textbooks
147  Popular works
148  Juvenile works
149  Pictorial works
151  Pocketbooks, tables, etc. (General)
153  General special
155  Addresses, essays, lectures
Study and teaching. Research
America
171  General works
173  United States
176  Canada
179  Latin America
180  Europe
181  Asia
182  Africa
183  Australia
190 Economics of location
   Class here only technical works
   Cf. HE1612+ Location, right of way, etc. (Economic aspects)
   Cf. TF215+ Railroad surveying (General)
193 Estimates, costs, etc.
195 Specifications
197 Model railways
Safety measures see TF610
Railway construction
200 General works
   Including reconnaissance, surveying, and location
203 General special
205 Railroad engineering (Fieldbooks, tables, etc.)
208 Preliminary operations
Railroad surveying
210 General works
212 Reconnaissance
213 Preliminary surveying
213.5 Aerial photography in railroad surveying
214 Plotting, profiles, etc.
   Location
215 General works
216 Curves and turnouts
217 Transition spiral, etc.
Earthwork
   Including rock cuttings
220 General works
222 Tables, calculations, etc.
   Excavating machinery, steam shovels, etc.
225 General works
226 Catalogs
Tunnels and tunneling
230 General works
232 General special
   Including special methods of tunnels, e.g. Pressure tunneling
   Maintenance and operating of tunnels
234 General works
235 Ventilation
236 Lighting
238.A-Z Special tunnels, A-Z
Permanent way. Superstructure. Roadway. Track
   Cf. TF530+ Maintenance and repair
240 General works
241 General special
243 Grades
244 Gauges
245 Drainage
248 Tracklaying machinery
   Details of the permanent way
250 Roadbed. Ballast
   Ties. Sleepers
252 General works
254 Wood
255 Iron and steel
256.A-Z Other, A-Z
257 Tie plates
Railway construction
Permanent way. Superstructure. Roadway. Track
Details of the permanent way -- Continued
Rails
258 General works
260 Section-books, tables, etc.
261 Rail fastenings (fishplates, bolts, etc.)
262 Continuous rails
263 Crossings
Cf. HE1617+ Grade crossings
264 Turnouts and curves (Construction)
For location of curves and field work see TF216
Switches, frogs, etc. Points (English)
266 General works
267 Frogs
268 Guardrails
Railway structures and buildings
Cf. NA6310+ Architecture
270 General works
Accessories to the permanent way
271 Track tanks
272 Ashpits, etc.
274 Y tracks
275 Turntables
276 Transfer tables (Chariots transbordeurs)
277 Fences, cattle guards, snow guards
Viaducts, bridges, etc. see TG445
282 Culverts, small bridges, cattle passes, etc.
(284) Trestles
see TG365+
Buildings, etc., other than structures enumerated above
288 General works
290 Water columns, cranes, and pipes
292 Sand plants and bins
294 Coalslides. Coaling plants. Coal chutes
296 Engine houses. Roundhouses
298 Shops
Passenger depots, stations, and terminals
300 General works
302.A-Z Special places, A-Z
Freight yards and terminals
305 General works
308.A-Z Special places, A-Z
315 Railway docks
320 Railway ferries
Railway equipment and supplies
General works
340 Periodicals, societies, etc.
345 Treatises
347 General special
Including standardization
350 Railway machinery and tools
355 Directories of dealers and manufacturers
357 Catalogs of dealers and manufacturers
Including reports, histories, etc. of individual firms
Cf. TJ625.A+ Locomotives
Railway equipment and supplies
   General works -- Continued
359   Directories of purchasing agents
361   Inspection. Testing
363   Specifications
365   Railway patents
368   Electrical equipment
Rolling stock and car building
   For rolling stock of special places and roads see TF21+
   For car service see TF600+
371   Periodicals
373   Dictionaries and encyclopedias
375   General works
      Including atlases
376   Railway shops and shop practice. Repair shops
      Cf. TJ680+ Locomotive shops
377   General special
Details of car construction
   Car trucks
380   General works
383   Wheels
386   Axles
389   Bearings and lubrication
391   Springs
393   Shock absorbers
400   Car bodies
410   Couplers
413   Draft gear
   Brake gear
415   General works
   Airbrakes
420   General works
425   Westinghouse
430   New York
440   Car furnishings
Car sanitation, heating, lighting, and ventilation
445   General works
   Lighting
447   General works
449   Electric lighting
451   Drinking water
453   Air conditioning
Varieties of cars
   Passenger cars
455   General works
456   Dome cars
457   Parlor cars
459   Sleeping cars
461   Dining cars
      Cf. TF668.A1+ Service
463   Baggage cars
467   Mail cars
   Freight cars
470.A1   Periodicals, societies, congresses, etc.
470.A3-Z   General works
475   Stock cars
Railway equipment and supplies
  Varieties of cars
    Freight cars -- Continued
    Refrigerator cars
  479
    Coal and ore cars
  481
    Tank cars
  485
    Cabooses, tool cars, etc.
  490
    Derrick cars and wrecking cars
    Motorcars
    General works
  494
    Steam motorcars
  495
    Gasoline motorcars
  497
    Diesel motorcars
  498
    Gas-turbine motorcars

Railway operation and management
  For business administration see HE1621+
  Periodicals and societies. By language of publication
  For engineering and construction periodicals see TF1+
  501
    English
  502
    French
  503
    German
  504
    Other languages (not A-Z)
  505
    General works
  506
    Cold weather operation
  507
    General special
    Organization, etc., of staff and force
    General works
  510
    General special
    For wage tables, see HD4966.R1-.R45
  515
    Accounting see HE2241
  518
    Classification of correspondence, maps, records, etc.
  518
    Education and training of employees
  520
    General works
  522
    Special roads
  530
    Maintenance and repair of permanent way
    General works
    Roadmasters' and trackmasters' regulations
    General works
  535
    Special roads
  536
    Inspection. Testing
  537
    Roadmasters' and trackmasters' manuals, etc.
  538
    Track maintenance equipment
  538.5
    Damage by natural disasters and its control
  539
    Protection against sand. Removal of sand
  541
    Protection against snow. Removal of snow and ice
  542
    Removal of wrecks
  544
    Removal of weeds. Weed-burners, etc.
  546
    Ditches
  548
    Trains
    Including the movement of trains and cars
    General works
  550
    Train resistance
    Cf. TF962 Car resistance
    Train speed
Railway operation and management

Trains

Train speed -- Continued

553 General works

554 Tables

555 Trainload. Ton-miles and coal computations

556 Train running

Trainmen's manuals, etc.

557 General works

(558) Wage tables

see HD4966.R45+

559 Train rules

561 Right-of-way

563 Train dispatching

565 Time schedules, etc., for making timetables

For timetables themselves see HE1805

Special kinds of trains

For named trains and trains of special roads see TF21+

Passenger

570 General works

573 Fast express

Freight

580 General works

582 Piggyback trains

583 Unit trains

Circus trains see GV1822

585 Other special kinds

Terminal and yard management

590 General works

592 Switching of cars. Shunting

593 Making up trains

595 Engine house management. Roundhouse management

Cars (Utilization and care)

Cf. HE1821+ Railway economics

Cf. TF371+ Car building

600 General works

Car interchange systems. Car service associations

605 Periodicals, societies, etc.

606 General works

610 Safety measures, signals, etc.

For airbrakes, etc., see TF420+

Signaling

Including telegraphic equipment

615 General works

617 General special

620 Tests of vision, color blindness, etc.

625 Hand signals, etc.

Telegraph and telephone system. Radio and other electronic systems

Cf. TK5569.T7 Train telegraph

627 General works

628 Special systems

Including Bopp's

630 Block systems

635 Interlocking systems

638 Automatic train control
Railway operation and management
  Signaling -- Continued
  Other systems
    Including coded centralized traffic control
  Catalogs of signaling appliances
  Railroad accidents see HE1779+
  Traffic operations
  General works
  Station management
  Passenger traffic
    Cf. HE2561+ Economic aspects
  Passenger tickets
  Baggage
  Express
  Freight
  General works
  (663)
    Classification
    see HE2123 HE2311 etc.
  Rate tables, etc.
  Prorating and adjustment tables, etc.
  Refrigerator service
  Dining car service
  Local and light railways
    For special places see TF21+
  General works
  General special
  Narrow gauge railways
    For special places see TF21+
  Industrial railways
  Logging railways
    For special places see TF21+
  Mountain railways
  General works
  Cable
    Cf. TF835 Street railways
  Rack
  Gravity
  Special railways. By place, A-Z
  Atmospheric railways
  Suspended railways
    Cf. TJ1385+ Cableways, telerphasis
  Single-rail railways
  Miscellaneous and curious railways
  Municipal and street railways. Interurban railways
  Periodicals, societies, etc.
  Directories
  Exhibitions. Museums
  General works
  By region or country, A-Z
    Subarrange each country by Table T4b
  General works
  General special
Local and light railways
Municipal and street railways. Interurban railways -- Continued
Rapid transit question
Cf. HE5351+ Interurban electric railways (Economic aspects)

710
General works
Special places see TF721+
Rolling stock, track, and equipment of street car systems see TF863+

721-827
Country subdivisions (Table T1a)
Add country number in table to TF700
For special subways see TF847.A+
For special freight subways see TF851.A+

830
Horse railways

835
Cable railways
Cf. TF682 Mountain railways

838
Compressed air railways
Elevated railways

840
General works

841.A-Z
Special places, A-Z

845
General works

847.A-Z
Special places, A-Z
Freight subways

850
General works

851.A-Z
Special places, A-Z

Electric railways
For special places see TF1021+
Periodicals and societies see TF701

855
General works

856
Juvenile works

857
General special
Electrification of steam railroads

858.A1
Periodicals. Societies. Serials

858.A2
Congresses

858.A4
General works

858.A5-Z
Special countries, A-Z

859.A-.Z4
Special cities (Terminals, etc.), A-Z

859.Z5A-.Z5Z
Special railroads, A-Z

Construction

863
Power production and distribution
Cf. TK1191+ Electric powerplants

865
Roadbed

Track

870
General works

872
Rails

873
Rail bonds, etc.

875
General special
Power transmission systems

880
General works

885
Trolley (overhead wiring)

890
Third-rail

895
Underground conduits

900
Other systems

912
Losses in transmission. Stray currents

Cars. Street cars. Interurban cars

920
General works

925
Car wiring and equipment
Electric railways
Construction
Cars. Street cars. Interurban cars -- Continued
930
Controllers
935
Railway motors
940
Car lighting, headlights, etc.
945
Car heating
947
Safety devices
  Including car fenders
949
Details of car construction
949.A9
Axles
949.B7
Brakes
949.G4
Gear wheels
949.W5
Wheels
Supplies
950
General works
951
Directories
952
Catalogs
Operation and management
960
General works
962
General special
  Including cost of operation, car resistance
  Cf. TF552 Train resistance
965
Motormen's manuals
  For airbrake instructions see TF420+
Service rules and regulations
967
General works
968
Special companies
970
Freight service
975
Electric locomotives
  Cf. TN337 Electric mine locomotives
980
Electro-diesel locomotives
1021-1127
Electric railways. Special countries (Table T1a)
  Add country number in table to TF1000
  Class here technical descriptions of special systems
High speed ground transportation
1300
Periodicals, societies, serials, etc.
1305
Congresses
1315
History
1321-1427
Special countries (Table T1a)
  Add country number in table to TF1300
Biography
1439
Collective
1440.A-Z
  Individual, A-Z
1450
General works
1455
Juvenile works
1460
General special
Construction (General)
1470
General works
1480
Power supply
1490
Guideways
Operation and management (General)
1500
General works
1510
Signaling
1520
Communications
Special systems
High speed ground transportation
   Special systems -- Continued
   1540  Improved passenger train (IPT)
          Tracked levitated vehicle (TLV)
   1560  General works
   1580  Tracked air cushion vehicle (TACV)
   1600  Magnetic levitation vehicle (MAGLEV)
   1620  Tube vehicle system (TVS)
Bridge engineering
Periodicals and societies. By language of publication

1 English
2 French
3 German
4 Other languages (not A-Z)
5 Congresses

Exhibitions. Museums

6.A1 General works
6.A2-Z By region or country, A-Z
Subarrange each country by Table T4b

7 Collections
9 Dictionaries and encyclopedias
12 Directories

History
15 General works
16 Ancient
17 Medieval
18 Modern
19 Nineteenth century
20 Twentieth century

21-127 Country divisions (Table T1a modified)
Add country number in table to TG0
Class here special bridges

America
North America
United States

25.A-Z Special places and special bridges, A-Z

e.g.
25.N53 New York. Brooklyn Bridge (Suspension)
25.N57 Niagara Falls. Suspension Bridge
25.N58 Niagara Falls. Cantilever Bridge
25.O43 Old Saybrook (Connecticut). New Baldwin Bridge
25.S15 St. Louis Bridge (Steel arch)
25.W3 Washington, D. C. Aqueduct Bridge

Canada

27.A-Z Special places and special bridges, A-Z

e.g.
27.M82 Montreal. Victoria Bridge (Tubular)

Europe

Great Britain

64.A-Z Special places and special bridges, A-Z

e.g.
64.B86 Britannia Bridge, Menai Strait (Tubular)
(64.F7) Forth Bridge
see TG64.S68
64.L84 London. Tower Bridge
64.M65 Monmouth (Wales). Monnow Bridge
64.S68 South Queensferry (Scotland). Forth Bridge

France

72.A-Z Special places and special bridges, A-Z

e.g.

130.A-Z Special companies (History, description, etc.), A-Z

Biography
Biography -- Continued

139 Collective
140 A-Z Individual, A-Z

General works

144 Early to 1800
145 1800-1850
146 Early 1850-1900
147 Elementary textbooks
147.5 Popular works
148 Juvenile works
149 Pictorial works
150 Pocketbooks, tables, etc.
151 General special
152 Addresses, essays, lectures
155 catalogs of bridge building companies
160 Atlases, plans, etc.
170 Study and teaching

(215-255) Bridge legislation and laws

see class K

Structural analysis as applied to bridges
Including loads, stresses, and strains

260 General works
265 Structural dynamics. Vibration
267 Tables, calculations, etc.
270 Graphic statics in bridge engineering

Bridge design and drafting

Cf. TG160 Plans

300 General works
301 Pin proportioning
302 Earthquake effects
303 Wind pressure
304 Snow and ice loads
305 Bridge testing
307 Models of bridges
310 Bridge specifications
313 Bridge estimates. Quantities and costs
315 Bridge erection, superintendence, maintenance and repair
320 Bridge foundations
324 Abutments and retaining walls for bridges
325 Floors
326 Bridge details
Including bearings, etc.

Special types of bridges
Arched bridges

327 General works
330 Masonry bridges
334 Concrete bridges
335 General works

Beam and girder bridges
Including the use of beams and girders in bridges

350 General works
355 Continuous girders
Cf. TG413+ Continuous girder bridges
360 Plate girders
362 Box girders

Trestles
Special types of bridges

Trestles -- Continued

365
Wood

367
Concrete and stone

370
Iron

Truss bridges

375
Wood

380
Iron and steel

385
Cantilever bridges

390
Tubular bridges

400
Suspension bridges

405
Cable-stayed bridges

410
Metal arches and metal arch bridges

Continuous girder bridges

413
General works

414
Reinforced concrete bridges

416
Metal bridges

418
Prefabricated bridges

Cf. UG335 Military bridges

Ice crossings, ice bridges, see TE247

Bridges for special uses

420
Movable bridges

Including drawbridges and swing bridges

425
Highway bridges

428
Footbridges

430
Park and ornamental bridges

435
Ferry bridges

445
Railway bridges

For special places see TG21+

Cf. TF282 Culverts, etc.

450
Pontoon bridges

Cf. UG335 Military bridges

Military bridges see UG335

470
Bridge accidents
Building construction
   Cf. TA630+ Structural engineering
Periodicals and societies. By language of publication
1  English
2  French
3  German
4  Other languages (not A-Z)
5  Congresses
Exhibitions. Museums
6.A1  General works
6.A2-Z  By region or country, A-Z
      Subarrange each country by Table T4b
7  Collected works (nonserial)
9  Dictionaries and encyclopedias
11  Builders' and contractors' bulletins
    Including prices, permits, etc.
Directories of building supply companies, builders, and contractors
12  General works
    United States
12.5  General works
13.A-Z  By region or state, A-Z
13.2.A-Z  Other regions or countries, A-Z
History and description
15  General works
16  Ancient
    Including primitive construction
17  Medieval
18  Modern to 1800
19  1801-
21-127  Country divisions (Table T1a)
      Add country number in table to TH0
Biography
139  Collective
140.A-Z  Individual, A-Z
General works
144  Early to 1850
145  1850-
146  Elementary works
148  Popular works
149  Juvenile works
151  Pocketbooks, tables, etc.
      Cf. TA151 Engineering pocketbooks
      Cf. TA685 Iron and steel construction
      Cf. TH434+ Estimates, quantities and costs
153  General special
    Including dangerous structures, safety of exit, moving of structures, cold weather conditions
154  Tropical conditions
    Cf. NA2542.T7 Climate and architecture
155  Addresses, essays, lectures
159  Building as a profession
Study and teaching
165  General works
166  Examinations, questions, etc.
    Special schools
    United States
210  General works
Study and teaching
   Special schools
      United States -- Continued
   Correspondence schools
   211
   213.A-Z Other countries. By country and city, A-Z

Research
   213.5 General works
   213.7.A-Z By region or country, A-Z
   Communication of building information
   215 General works
   216 Information services
   (219-255) Building laws, legislation, etc.
      see class K
   257 Patents
   350 Engineering of the subdivision
      Cf. TD160+ Planning and laying out of cities
      The building site
         Cf. NA2540.5 Site planning (Architecture)
         Cf. TK4399.B8 Electric lighting
   375 General works
   380 Landscape construction by builders
   383 Prevention of soil erosion
   385 Building layout
   420 Building standards
   425 Specifications (General)
      For specifications for special types of building see TH4311+
   431 Drawings
      Including how to read plans
      Cf. T379 Blueprint reading
      Cf. TH2031 General details
   (432) Bookkeeping, etc. for the builder
      see HF5686.B7
   434 Estimates. Measurements. Quantities and cost
      General works
   435 Early to 1890
   436 1890-
   437 General special
      Including data processing
      Management of the construction site. Superintendence of building construction
   438 General works
   438.13 Building information modelling
   438.15 Cost effectiveness
   438.2 Quality control
   438.4 Scheduling
   439 Building inspection
   441 Building failures, errors, defects, etc.
      Cf. TH9025+ Protection of buildings
   443 Building accidents and their prevention
      Maintenance and repair see TH3301+
   447 Wrecking
   449 Salvaging
      Including circulars, prospectuses, etc.
   453 Building performance
Catalogs of building supplies (General)
   Cf. TH1655 Metalwork
   Cf. TH2055 Building fittings

Architectural engineering. Structural engineering of buildings
   Cf. TH1111 Wooden buildings

Treatises

Elementary textbooks

Pocketbooks, tables, etc.

Modular coordination
   Cf. NA2685+ Drafting
   Cf. NA2750+ Design

Sustainable buildings. Sustainable construction
   Including building while following sustainable construction methods
   For works on ecological houses see TH4860
   Cf. NA2542.36 Architecture

Wind-pressure

Rain loads

Snow loads
   Insulation see TH1715+
   Architectural acoustics see NA2800
   Soundproof construction see TH1725

Construction equipment in building
   Including machinery used in building construction
   Cf. TJ793.2 Internal combustion engines for construction equipment

General works

Tools and implements (General)
   Cf. TH5618 Carpenters’ tools
   Cf. TH6299 Plumbers’ tools

Systems of building construction
   Cf. TA401+ Building materials

Industrialized building
   Cf. TH1098 Prefabricated and portable buildings

Fire-resistant or fireproof building construction
   Cf. TH9057+ Lightning rods
   Cf. TH9111+ Fire prevention
   Cf. TP265+ Chemistry of fire and fire prevention

Periodicals, societies, etc.

General works

General details
   Including fire doors and shutters, wire glass windows, etc.
   For fire escapes see TH2274

Systems of fireproofing and special materials
   Including catalogs

Wood and other organic material
   Including impregnated wood, fire-retardant coatings

Fire resistant plastics

Fire resistant polymers

Asbestos

Earthenware, brick, tile, terra-cotta
   Including combinations with steel, etc.

General and solid forms

Hollow earthenware

Cement and concrete
   Including reinforced concrete
   Cf. TH1461+ Concrete building construction

Reinforcing materials
Systems of building construction
Fire-resistive or fireproof building construction
Systems of fireproofing and special materials -- Continued

1088.5
Smoke control systems

1088.56
Steel

1089
Tile-concrete combination systems
Tests of fire-resistant construction (General). Fire testing
  Including artificial tests
  For tests of special systems see TH1099
  Cf. TH9446.3+ Fire testing of materials

1091
General works

1092
Tests of building materials

1093
Tests in fires
  General conflagrations, not artificial tests

Earth movements and building. Subsides, etc.

1094
General works

1095
Earthquakes and building
  Cf. TA654.6 Earthquake engineering
  Cf. TA658.44 Earthquake resistant design

1095.5
Construction on contaminated sites

1096
Stormproof construction

1096.5
Vertical evacuation structures

1097
Bombproof construction. Bombproof shelters. Fallout shelters
  Cf. TH7392.A8 Heating and ventilation of atomic bomb shelters

Waterproof construction see TH9030+

1098
Prefabricated and portable buildings
  Cf. NA8480 Architecture

1099
Air-supported structures

1100
Lightweight construction

1101
Wood building construction
  For floor framing see TH2311
  For roof framing see TH2393
  For scaffolding see TH5281
  For centering and centers see TH5591
  For carpentry and joinery see TH5601+
  Cf. TA666+ Wooden construction (General)

1111
Architectural engineering of wooden buildings

Architectural woodwork
  Cf. TH8581+ Decorative woodwork

1151
General works

1155
Catalogs

Masonry building construction
  Cf. TA670+ Masonry construction (General)
  Cf. TH5311+ Practical masonry

1199
General works

1201
Stone building construction
  For stone construction (General) see TA676
  For artificial stone building construction see TH1451
  For stonemasonry and stonecutting see TH5401+

1301
Brick building construction
  For brick construction (General) see TA679
  For bricklaying see TH5501+

(1375)
Terra-cotta and hollow tile building construction
  see TH1077+

1421
Pisé, earth-wall or pressed-earth building construction

1431
Ice and snow building construction
Systems of building construction -- Continued

1451 Artificial stone building construction
1461 Concrete building construction. Cement and stucco
   For concrete construction (General) see TA680+
1471 General works
1485 Specifications
1491 Concrete-block building construction
1498 Precast concrete construction
1501 Reinforced concrete construction
   For reinforced concrete construction (General) see TA682.92+
   For reinforced concrete fireproof building construction see TH1087
1550 Staff building construction. Papier mâché, etc.
1555 Fiber building boards
   Cf. TH1715+ Insulation
1560 Glass construction
   Cf. TA450 Glass (Structural material)
   Cf. TH8251+ Glazing

Iron and steel building construction
   For iron and steel construction (General) see TA684+
   Cf. TH4818.S73 Steel house construction
1610 General works
1611 Before 1890
1615 1890-
1619 Juvenile works
1619 Estimates
1621 Pocketbooks, tables, etc.
1625 Catalogs of buildings
1635 Forms of construction
1635 Space frame structures

Architectural metalwork. Sheet metal, castings, etc.
   For gratings see TH2273
1651 General works
1655 Catalogs (General)
1675 Special materials
1675 Metal sheathing. Metal lathing
   Reinforcing materials in fireproof building construction see TH1088

Insulation and insulating materials
   Including thermal properties of walls
   Cf. TJ163.26+ Energy conservation
   Cf. TP490+ Refrigeration
1715.A1 Periodicals, societies, etc.
1715.A2-Z General works
1718 Cellulose insulation
1719 Sealing. Airtight construction
1720 Sheathing papers
1725 Soundproof construction. Noise in buildings
   Cf. NA2800 Architectural acoustics
1727 Acoustical materials

Details in building design and construction
2025 General works
2031 Structural drawings
   Cf. TH431 Drawings (General)
2055 Catalogs of building fittings (General)
   Cf. TH1155 Architectural woodwork
   Cf. TH1655 Architectural ironwork
   Cf. TH6010+ Building fittings and their installation
Details in building design and construction -- Continued

2060  Joints in buildings
2101  Foundations
  Including works from the engineering standpoint
  Cf. TH2221 Foundation walls
  Cf. TH5201 Practical construction

2140  Piers
  Arches and vaults
2150  General works
2160  Vaults
  Domes
    Cf. TH2416+ Shell roofs
2170  General works
2170.5  Concrete domes
2170.52  Geodesic domes
2170.7  Masonry domes
2170.85  Wooden domes
2180  Towers
  Walls
    Cf. TH5311+ Masonry
2201  General works
2221  Foundation walls
  Walls above surface
2231  General works
  Exterior walls
2235  General works
2238  Curtain walls. Cladding
2238.5  Siding
2238.7  Exterior insulation and finish systems
2239  Interior walls
  Special materials
2242  Algae
    Including biofilms and microalgae
2243  Brick walls
2244  Clapboard walls
2245  Concrete walls
2247  Sheet metal walls
    Cf. TH1651+ Architectural metalwork
2249  Stone walls
2249.5  Terra-cotta
  Wall details
2251  General works
2251.2  Balconies
2251.5  Veneers
  Other special accessories
  Columns. Capitals
2252  General works
2253  Catalogs
2255  Abutments
  Building-integrated photovoltaic systems see TK1087
2258  Fixed ladders
2259  Ramps
  Window and door openings and their fittings
    Including lintels, plate-bonds, sills, reveals, caps, trimmings
2261  General works
2264  Window openings
Details in building design and construction
   Other special accessories
     Window and door openings and their fittings -- Continued
       Bay and bow windows
       Windows and doors and their fittings
         Cf. TH1069 Fire doors and shutters
         Cf. TH1155 Woodwork catalogs
         Cf. TH8251+ Glazing
         Cf. TH9720+ Burglar-proof construction

2270 General works
2271 Catalogs of door and window fittings
2272 Sashes. Frames
2273 Gratings. Window guards
2274 Fire escapes and fittings
2275 Windows
   For skylights see TH2486+
2276 Shutters, blinds, screens, and other window fittings
2277 Doors. Sliding and folding doors. Screen doors. Fire doors
2278 General works
2279 Door fittings. Locks, knobs, etc.

Chimneys and flues
   Cf. TH4591 Chimneys for powerplants
   Cf. TJ330+ Boiler plant engineering
2281 General works
2284 Smoky chimneys and their remedy
   Cf. TD884 Smoke prevention
2285 Soot removal
   Fireplaces see TH7421+
2288 Mantelpieces
   Cf. TH1151+ Architectural woodwork

Framing (House framing, etc.)
   Cf. TH1101 Wood building construction
   Cf. TH1610+ Iron and steel building construction
2301 General works
2311 Floor framing
   Cf. TH2521+ Floors and flooring

Roof framing, roofs and roofing
   Cf. TH5619 Steel square and its uses
2391 General works
2392 Roof trusses
2393 Roof framing. Rafters, etc.
2397 Special tools and appliances
   Including rafter gages
2398 Rafter tables, etc.

Roofs
2401 General works
2404 Retractable roofs
2405 Mansard roofs
2406 Pitched roofs
2407 Saddle roofs
2409 Flat roofs
2417 Shell roofs
2416.A1 Periodicals, societies, etc.
2416.A3-Z General works
2417 Suspension roofs

Roofs for special parts of the building
Details in building design and construction

Roof framing, roofs and roofing

Roofs
Roofs for special parts of the building -- Continued

2421 General works
2423 Bay window roofs
2425 Porch and veranda roofs

Roofing
Periodicals, societies, congresses, etc.
2430 General works
2431 Catalogs of roofing (General)
2435 Thatch roofing
2438 Board roofing
2441 Shingle roofing
Stone roofing
2444 General works
2445 Slate roofing
2446 Concrete roofing
2447 Plastic roofing
2448 Tile roofing
2449 Textile roofing
Composition roofing
2450 General works
2451 General special
Including tar, felt, gravel, slag, etc.
2452 Single-ply roofing
Metal roofing
Cf. TH1651+ Architectural woodwork
Cf. TS600+ Roofing catalogs
2454 General works
2455 Tin roofing. Tin shingling
2457 Iron and steel roofing
2458 Lead and copper roofing
2459 Aluminum roofing

Roof details
Cf. TH1651+ Architectural woodwork
Cf. TH2433 Roofing catalogs
2481 General works
Cornices and moldings
Cf. TH1151+ Architectural woodwork
Cf. TH2553 Interior cornices and moldings
2482 General works
2483 Catalogs
Skylights and ventilators
General works
2486 General works
2487 Skylights
2489 Ventilators
see TH7683.V4

Hatchways. Scuttles
2491 Gutters, eave troughs, down spouts, and conductors
2493 Finials and bannerets. Vanes

Floors and flooring
For floors and flooring in special types of buildings, see the type of building, e.g. TH4534
Packinghouses
Cf. TH2311 Floor framing
Cf. TH8541+ Tile
Details in building design and construction
Floors and flooring -- Continued

2521
  General works
  Flooring
    For carpets, rugs, etc. see TS1772+

2525
  General works

2528
  Maintenance and care

2529.A-Z
  Special types. By material, A-Z
2529.C6
  Concrete (Nonstructural)
2529.E27
  Earth
    Linoleum see TS1779.L5
2529.M4
  Metal
2529.P5
  Plastic
    Including asphalt and vinyl
2529.S7
  Stone
    Tile (Ceramic) see TH8541+
2529.W6
  Wood. Parquetry

Ceilings and centerpieces
  Cf. NA2950 Architecture
  Cf. TH8120+ Plastering

2531
  General works

2533.A-Z
  Special types, A-Z
2533.S88
  Suspended
2533.W66
  Wooden

Partitions

2541
  General works
2544
  Shoji screens
2547
  Wainscots
2553
  Moldings and cornices (Interior)
    Cf. TH1155 Woodwork catalogs
    Cf. TH2482+ Exterior cornices
    Cf. TH8581+ Decorative woodwork

2555
  Shelving
    For mantelpieces see TH2288

3000.A-Z
  Special rooms, A-Z
3000.A74
  Areaways
3000.A86
  Attics
3000.B36
  Basements
3000.B38
  Bathrooms
3000.C45
  Chashitsu
3000.C55
  Closets
3000.C73
  Crawl spaces
3000.K58
  Kitchens
3000.L63
  Lofts
3000.R43
  Recreation rooms
3000.S85
  Sunspaces

Maintenance and repair
  Cf. TH4817+ Dwellings
  Cf. TH6013 Maintenance of equipment
  Cf. TX323 Care of the house (Home economics)

3301
  General works
3311
  General special
  Maintenance

3351
  General works
3361
  General special
  Repair. Rebuilding. Remodeling
Maintenance and repair
  Repair. Rebuilding. Remodeling -- Continued

3401  General works
3411  General special

Buildings: Construction with reference to use
  Including specifications and construction of individual or named buildings

Public buildings
  Cf. NA4170+ Architecture

4021  General works
  (4161) Monuments, memorial arches
    see NA9320+
  (4171) Mausoleums, etc.
    see NA6120+

4221  Churches
  Cf. NA4790+ Architecture

4224  Pagodas
  Other public buildings, see TH4755+

Commercial buildings. Office buildings
  Cf. NA6210+ Architecture

4311  General works
4315  Estimates. Measurements. Quantities and costs
  (4411) Transportation buildings
    see NA6300+ TA1225

  (4421) Railway stations
    see NA6310+

  (4431) Dock buildings
    see TC355

  (4441) Ferry houses
    see NA6330

Storage buildings

4451  Warehouses
  Cf. NA6340+ Architecture

4461  Grain elevators
  Cf. NA6350 Architecture
  Cf. TH4498 Bins (General)
  Cf. TJ1415+ Grain-handling machinery

4471  Coal-handling plants
  Cf. TH4498 Bins (General)
  Cf. TJ1405 Coal-handling machinery

4481  Icehouses (Commercial)
  Cf. NA6360 Architecture

4485  Lumberyards, sheds, etc.

4498  Bins (General)
  Cf. TH4461 Grain elevators
  Cf. TH4471 Coal-handling plants

4499  Other storage buildings
  Cf. NA6290+ Architecture

Factories and mills. Industrial plants
  Cf. NA6396+ Architecture
  Cf. TN675.5+ Metallurgical plants and furnaces
  Cf. TS186 Factory buildings

4511.A1  Periodicals, societies, etc.

4511.A2-Z  General works

4516  General drawings of factory construction

4518  Underground factories

4521  Textile mills
Buildings: Construction with reference to use
Factories and mills. Industrial plants -- Continued

4522  Clothing factories
4524  Chemical plants
4526  Food processing plants
4531  Breweries
4532  Distilleries
4533  Electronics plants
4534  Packinghouses
4536  Paper and pulp mills
4536.5  Printing plants
4537  Rolling mills
4538  Water treatment plants
4541  Other special factories and mills
4561  Mine buildings and other structures
4571  Refineries

4581  General works
4591  Chimneys. Smokestacks
                     Cf. TD884 Smoke prevention
                     Cf. TH2281+ Chimneys (General)
                     Cf. TJ330+ Boiler plant engineering

Educational buildings

(4621)  Schools
                     see LB3205+ NA6600+
(4631)  Libraries
                     see Z679
(4641)  Art museums and galleries
                     see N450+
(4651)  Exhibition buildings
                     see NA6750; T391+
4652  Research buildings. Laboratories
                     Cf. NA6751 Architecture
4655  Radio stations
4656  Television stations
(4661)  Hospitals
                     see RA960+
                     For psychiatric hospitals see RC438.92+
4711  Recreation buildings. Park buildings
                     Cf. NA6800+ Architecture
4713  Bull rings
4714  Stadiums

Other public buildings

4755  Restaurants
                     Cf. NA7855+ Architecture
4758  Embassy buildings
4761  Baths
                     Cf. NA7010 Architecture
                     Cf. RA605+ Public health
4763  Swimming pools
(4765)  Public comfort stations
                     see RA607
4800  Clubhouses
                     Cf. NA7910+ Architecture
Buildings: Construction with reference to use -- Continued

Houses. Dwellings
  Cf. NA7100+ Architecture
  Cf. TK7881.25 Home automation

4805  Periodicals, societies, congresses, etc.
       History and description

4808  General works

4809.A-Z  By region or country, A-Z

4811  General works

4811.5  Juvenile works

4812  General special

4813  Handbooks, manuals, etc.

4814  Research

4815  Amateur construction manuals

4815.4  House construction contracting
         Including hiring a contractor

4815.5  Standards. Specifications

4815.8  Estimates. Measurements. Quantities and costs

Remodeling

4816  General works

4816.15  Access for people with disabilities. Barrier-free design

4816.2  Additions

4816.3.A-Z  Special rooms, A-Z

4816.3.A77  Attics

4816.3.B35  Basements

4816.3.B37  Bathrooms

4816.3.B43  Bedrooms

4816.3.C45  Children's rooms

4816.3.K58  Kitchens

4816.3.L57  Living rooms
         Office decoration see NK2195.O4

4816.3.O34  Offices
         Maintenance and repair

4817  General works

4817.3  Amateurs' manuals

4817.5  State of repair. House buyers' guides
         Cf. HD1379 Popular guides in real estate business

4818.A-Z  Construction in special materials, A-Z

4818.A3  Adobe. Earth

4818.B3  Bamboo

4818.B7  Brick

4818.C6  Concrete blocks
         Earth see TH4818.A3

4818.M37  Masonry

4818.P3  Paperboard

4818.P53  Plaster

4818.P7  Precast concrete

4818.R4  Reinforced concrete

4818.S55  Sod

4818.S6  Soil cement

4818.S73  Steel

4818.S75  Stone

4818.S77  Straw

4818.T57  Tires

4818.W6  Wood

Buildings: Construction with reference to use
Houses. Dwellings
Special methods of construction, A-Z -- Continued

4819.E27 Earth sheltered houses
4819.M6 Mobile homes
  Cf. TL297+ Trailers
  Cf. TX1100+ Mobile home living
4819.P7 Prefabricated
4819.S5 Slab-on-ground
Special types of houses
  Cf. TH4920 Farmhouses
4820 Apartment houses
4822 Blackhouses
4825 Terrace houses
4835 Summer homes
4840 Log cabins
4850 Country homes
4860 Ecological houses
4870 Yurts
4880 Fishing lodges
4885 Tree houses
4890 Other shelters (not A-Z)
Farm buildings
  Cf. NA8200+ Architecture
  Cf. S770+ Agriculture
4911 General works
4916 Handbooks, tables, etc.
4920 Farmhouses
  Cf. NA8208+ Architecture
4930 Barns. Poultry houses
4935 Silos
4940 Machine-tractor stations
Minor buildings. Fences, gates, etc.
4955 General works
4960 Garages. Carports
  Cf. NA8348 Architecture
Garden structures
  Including building of structural elements for landscape construction
4961 General works
4961.5 Barbecues
4962 Garden toolsheds
4963 Gazebos
4965 Fences, gates, etc.
4967 Playhouses, Children’s
  Cf. TH4885 Tree houses
4970 Terraces, patios, decks, garden walks, etc.
  Cf. NA8375 Architecture
4975 Privies. Outhouses
  Cf. TD775 Sewage disposal
4977 Fountains
  Cf. NA9400+ Architecture
Construction by phase of the work (Building trades)
  For works from the engineering standpoint, see TH1101+
5011 General works
5101 Earthwork and excavation in building
  Including operations, tools, etc.
Construction by phase of the work (Building trades) -- Continued

5201
Foundation work in building
Cf. TA775+ Foundations (General engineering)

Temporary structures in building

5280
General works

5281
Scaffolding in building. Shoring. Staging
Cf. TA682.44 Formwork for concrete construction
Cf. TH5591 Centering

Masonry in building
Class here practical methods, operations, tools, etc.
Cf. TA425+ Masonry materials
Cf. TA670+ Masonry construction (General)
Cf. TH1199+ Masonry building construction (Engineering)

5311
Treatises

5313
Elementary manuals

5317
Addresses, essays, lectures

5321
General special

5325
Masonry as a profession
Including stonemasonry and bricklaying

5330
Estimates, quantities and cost measurements, etc.

5371
Pointing and stucco

Stonemasonry and stonecutting
For stone building construction see TH1201
For walls, design, etc. see TH2201+

5401
General works

5411
Elementary manuals

5421
General special

Stonemasonry as a profession see TH5325

5440
Tools for stonemasons and stonecutters
Bricklaying in building
For brick building construction see TH1301
For walls, design, etc. see TH2201+

5501
General works

5511
Elementary manuals
Bricklaying as a profession see TH5325

5520
Cleaning of masonry, stone, brick, etc.
(5551)
Cement and concrete work
see TA680+

5591
Centering of arches
For scaffolding see TH5281

Carpentry and joinery
Cf. TH1101 Wood building construction
Cf. TS840+ Woodworking

5601
Periodicals

5603
Early to 1800
1800-

5604
General works

5605
Graphic treatises
Plates or drawings, with text subordinate

5606
Beginners' manuals. Elements

5607
Popular works. Home carpentry

5608
Pocketbooks and tables. Handbooks and compilations of rules

5608.5
Examinations, questions, etc.

5608.7
General special

5608.8
Vocational guidance
Construction by phase of the work (Building trades)

Carpentry and joinery -- Continued

5609 Specifications
5611 Drawing and drawings for carpentry and joiner
5612 Mathematics
5613 General works
5614 Slide-rule calculations in carpentry and joinery
5615 Estimates, quantities and cost, measurements, etc.
5616 Before 1850
5617 1850-
5618 Tools for carpenters and joiners
5619 The steel square and its uses
5640 Finish carpentry
5641 General works
5642 Joinery
5662 General works
5663 Elementary manuals
5664 Stairbuilding
5665 Including iron, wood, and stone
5666 General works
5667 Stair and handrail joinery. Wooden stairbuilding
5668 General works
5669 Stair joinery
5670 General works
5671 Tables of treads and risers
5672 Handrail joinery. Stair railings
5673 General works
5674 Tools and appliances for handrail joinery
5675 Catalogs
5676 Mitering
5677 For exterior moldings see TH2482+
5678 For interior moldings see TH2553
5695 Trim carpentry
5701 Metalworking
5702 Cf. TH1651+ Architectural metalwork
5703 General works
5704 Steel-girder riveting, etc. see TA891
5705 Building fittings and their installation
5706 Including mechanical equipment
5707 Cf. TH2055 Catalogs of building fittings
5708 Cf. TK4001+ Applications of electric power
5709 General works
5710 Building control systems
5711 Cf. TH7466.5 Heating control
5712 Cf. TH7687.7 Air conditioning systems and details
5713 Maintenance and repair
5714 Environmental engineering of buildings. Sanitary engineering of buildings
5715 Class here works on general and household plumbing, heating, lighting, air conditioning,
soundproofing, etc., treated collectively
5716 Class special aspects with the subject, e. g. TH7201+ Heating; TH1725 Soundproofing
5717 Periodicals, societies, congresses, etc.
5718 Dictionaries and encyclopedias
5719 Directories
5720 General works
5721 Handbooks, manuals, etc.
Environmental engineering of buildings. Sanitary engineering of buildings -- Continued

6025  General special
6028  Addresses, essays, lectures
6031  Design of systems
6051  Specifications
6053  Building orientation
6057.A-Z  Installations in special classes of buildings. By class, A-Z
6057.A6  Apartment houses. Dwellings
6057.C6  Canneries
          Dwellings see TH6057.A6
6057.F3  Factories
6057.F35  Farm buildings
6057.I53  Industrial buildings
6057.L3  Laundries, Public
6057.M87  Museum buildings
6057.O4  Office buildings
6057.P8  Public buildings
6057.R4  Restaurants, lunchrooms, etc.
6057.T23  Tall buildings
6057.T3  Theaters
6057.W55  Wineries
6059.A-Z  Installations within special buildings. By name, A-Z
          Sanitary crafts
          General works
6071  Early to 1875
6072   1875-
6073  Textbooks
6081  Study and teaching. Schools
(6085)  Legislation
          see class K

Plumbing and pipefitting
          Including household plumbing
          Cf. TH6703+ Pipefitting
6101  Periodicals, societies, etc.
6107  Collected works (nonserial)
6109  Dictionaries and encyclopedias
6112  Directories
     History
8115  General works
     Special countries
     United States
6116  General works
6117.A-.W  States, A-W
6119.A-Z  Other regions or countries, A-Z
     General works
6121  Early to 1875
6122   1875-
6123  Textbooks
6124  Popular works. Juvenile works
6125  Pocketbooks, tables, etc.
6126  General special
6127  Addresses, essays, lectures
6128  Examinations, questions, etc.
6130  Vocational guidance
     Study and teaching
Plumbing and pipefitting
   Study and teaching -- Continued

6131
   General works
   By region or country
      Individual institutions are classed by state or country without further subdivision
      United States
6151
   General works
6152.A-Z
   By region or state, A-Z
6153.A-Z
   Other regions or countries, A-Z
(6161-6175)
   Laws and regulations
      see class K
   General special
6225
   Specifications
6231
   Drawing and drawings
      Bookkeeping for plumber and pipefitter see HF5686.P7
      Estimates. Measurements. Quantities and costs
6234
   Early to 1850
6235
   1850-
6238
   Superintendence
6239
   Inspection
6241
   Testing
      Cf. TH6617 Testing for leakage
   Plumbing fixtures and fitting supplies
6249
   General works
6252
   Standards
6255
   Catalogs of plumbing and fitting supplies
      Cf. TH6299 Plumbers' tools
      Cf. TH6529 Catalogs of water-supply fixtures
      Cf. TH6589 Catalogs of drainage fixtures
      Cf. TH6729 Catalogs of pipefittings
(6280)
   Systems of domestic water supply, drainage, etc.
      see TH6521+
   Plumbing work
      Cf. TH6681+ Maintenance work
6291
   General works
   Laying pipes. Joints. Pipefitting
      Cf. TH6703+ Pipefitting (General)
6293
   General works
6294
   Pipe bending
6295
   Joint-wiping
6297
   Soldering, solder, and fluxes in plumbing
      Cf. TH6691 Lead burning
6299
   Plumbers' tools and apparatus
      Cf. TH6255 Catalogs of plumbing fixtures, etc.
   Plastics in plumbing
6325
   General works
6330
   Plastic tubes and pipes
      Cf. TA448 Testing of plastic pipes
      Cf. TP1185.P5 Manufacture of plastic pipes
   Plumbing of special rooms and areas
   Bathrooms. Toilet rooms. Lavatories
      For public toilets see TH6515.P9
6485
   General works
6486
   General special. Specifications, etc.
6487
   Systems
   Details. Fixtures
Plumbing and pipefitting
  Plumbing of special rooms and areas
  Bathrooms. Toilet rooms. Lavatories
    Details. Fixtures -- Continued
  6488
    General works
  6489
    Catalogs of bathroom fixtures
  6490
    Basins
    Baths
      Cf. TH6518.B3 Public baths
  6491
    General works
  6492
    Shower baths. Sprays
  6493
    Tubs
  6494
    Foot baths
  6495
    Sitz baths
  6496
    Bidets
  6497
    Soil fixtures
  6498
    Water closets. Toilets
  6499
    Urinals
  6500
    Flush tanks and auxiliary valves, etc.
  6501
    Hot tubs
    Laundry plumbing
      For public laundry plumbing see TH6518.L3
  6502
    General works
  6503
    Systems
    Details
  6505
    Washtubs
    Kitchen and pantry plumbing
      For range water-heating see TH6553+
      For kitchen boilers see TH6563
      For kitchen and laundry drainage systems see TH6661
      For refrigerator plumbing see TH6671.R3
  6507
    General works
  6508
    Catalogs
  6509
    Systems
    Details
  6511
    Sinks
  6512
    Grease traps
      For traps (General) see TH6631+
  6515.A-Z
    Plumbing of special buildings, A-Z
  6515.A6
    Apartment house plumbing
  6515.F2
    Factory plumbing
  6515.F3
    Farmhouses
    Hospitals and health facilities see RA969.33
  6515.H8
    Hotel plumbing
  6515.O3
    Office building plumbing
  6515.P9
    Public toilet plumbing
      For architecture of public toilets see NA7020
  6515.S4
    Schools, universities, etc.
  6515.T35
    Tall buildings
    Tenement house plumbing see TH6515.A6
  6518.A-Z
    Plumbing for special establishments, A-Z
  6518.B2
    Bar (saloon) plumbing
  6518.B3
    Baths, Public
  6518.C3
    Carriage house plumbing
    Laundries, Domestic (Plumbing) see TH6502+
  6518.L3
    Laundries, Public
Plumbing and pipefitting

Plumbing for special establishments, A-Z -- Continued

6518.S6

Soda fountain plumbing
For soda water apparatus see TP635

Water supply
For municipal water supply see TD201+
For cold water supply see TH6541+
For hot water supply see TH6551+
For pumps see TJ899+

6521

General works

6523

Backsiphonage. Cross-connections

(6525)

Rural domestic water supply
see TD927

Details

6527

General works

6528

Valves. Faucets
For filters see TD449

6529

Catalogs of water-supply fixtures
Catalogs of pipefittings see TH6729

6531

Theory

(6535)

Domestic means of supply

(6538)

Water measurement and meters
see TD499+

Cold water supply

6541

General works

Systems

6542

General works

6544

Flushing systems (Automatic, etc.)

6545

Storage systems. Storage tanks
For fire storage tanks or towers see TH9332+

(6547)

Details
see TH6527+

Hot water supply. Water heaters

6551

General. Tank systems. Cylinder systems
Systems of heating
For systems of supply see TH6567

6552

General works

Range water heaters
For kitchen plumbing (General) see TH6507+
For range boilers see TH6563

6553

General works

6554

Types
Details

6555

Water backs

6556

Water heating coils

6557

Thermostats

Steam water heaters

6558

General works

6559

Steam coil tanks

6560

Steam condensation heating tanks

6561

Gas water heaters

6561.5

Electric water heaters

6561.7

Solar water heaters
Cf. TJ809+ Solar energy

Storage of hot water

6562

General works
### Plumbing and pipefitting

**Hot water supply. Water heaters**
- Storage of hot water -- Continued
  - Kitchen boilers and supports
  - Hot water tanks (used with water heaters)
- Explosions and their prevention. Kitchen boiler explosions
  - General works
  - Valves and blow-off cocks
    - Cf. TJ350+ Safety appliances for steam boilers
- Systems of supply
  - For systems of heating see TH6552+
- Connections and circulation piping
- Special applications of water supply, A-Z
  - Cf. TH9332+ Connections for fire extinction
  - Cf. TH9365 Connections for fire extinction
- Drinking fountains
  - Fountains
  - Sprinklers

### House drainage

**General works**
- General special
- Catalogs of drainage fixtures, traps, etc.
  - For catalogs of plumbing and fitting supplies see TH6255
  - For catalogs of closets, basins, etc. see TH6489
  - For catalogs of pipefittings see TH6729

### Theory

- Including expansion of drainage system

### Systems

- One-pipe systems
- Two-pipe systems
- Mechanical discharge systems
- Special systems. By name of patentee or manufacturer, A-Z
- Work
- Connections
- Roughing in
- Testing for leakage
  - Testing with compressed air, water, smoke, peppermint, etc.

### Details. Fittings

- For catalogs of general drainage fittings see TH6589

**General works**
- Drain piping (General)
  - For soil piping see TH6653
  - For waste piping see TH6658+
  - For vent piping see TH6668
- Traps and vents. Siphonage
  - For drain traps see TH6647

**General works**
- Special types of traps
  - For grease traps see TH6512

**Cleanouts**
- For drain cleanout ferrules see TH6646

**Cesspools**
- See TD775

**Septic tanks**
- See TD778

**Elements of drainage system**
Plumbing and pipefitting

House drainage

Elements of drainage system -- Continued

House sewer

Outside of house, connecting house drain with main sewer

House drain

Horizontal piping in cellar, receiving all house drainage

6641

General works

6644

Supports for drains

6646

Cleanout ferrules

For cleanouts (General) see TH6635

6647

Special drain types

For traps (General) see TH6631+

Floor and area drains see TH6671.C3

6649

Fresh air inlets

Rain leaders see TH2493

Soil stack systems

Class here draining sewage or sewage and wastes

6651

General works

6652

Soil stack

6653

Soil piping

Waste stack systems

Class here draining wastes

6655

General works

6656

Waste stack

Waste piping

6658

General works

Special waste systems

Cf. TH6671.A+ Special drainage applications

6661

Kitchen and laundry wastes

For laundry plumbing see TH6502+

For kitchen plumbing see TH6507+

(6663)

Laving systems and fixtures

see TH6485 TH6500

Toilet room plumbing and fixtures see TH6485+

Vent stack systems

6665

General works

6666

Vent stack. Roof outlets

6668

Vent piping

For drain piping (General) see TH6628

Trap ventilation see TH6631+

6671.A-Z

Special drainages, A-Z

6671.C3

Cellar or basement drainage

6671.F6

Floor and yard drainage

6671.R3

Refrigerator drainage

6675.A-Z

Special installations. By name, A-Z

Cf. TH6059.A+ Special sanitary installations

Maintenance and repair of plumbing

6681

General works

6685

Freezing and thawing of pipes

6691

Lead burning. Autogenous soldering

For soldering in plumbing see TH6297
Plumbing and pipefitting -- Continued

Pipefitting

Class here the installation of piping and fixtures for heating, lighting, etc.
For plumbing see TH6293+
For gas fitting see TH6840
For pipefitting for steam and hot water heating see TH7467+

6703 General works
6706 Textbooks
6711 Pocketbooks, tables, rules
6715 General special
6721 Estimates of material and labor
6723 Prices of pipefittings
6729 Catalogs of pipefitting
    Catalogs of drainage fixtures see TH6589
    Catalogs of gas fixtures see TH6865
    Catalogs of water supply fixtures see TH6529
    Catalogs of plumbing and fitting supplies see TH6255

Gas in buildings. Building gas supply
    Cf. TH6561 Gas water heating
    Cf. TH7405+ Gas heating
    Cf. TH7466.G3 Central heating with gas
    Cf. TH7910+ Gas lighting
    Cf. TX657.O6 Kitchen gas ovens
    Cf. TX657.S6 Kitchen gas ranges

6800 Periodicals, societies, congresses, etc.
6810 General works
6820 General special
6830 Safety measures
       General works
6835 Venting for appliances
6840 Piping installation. Pipefitting
       Details
       General works
6850 Fixtures and appliances
       General works
6860 Maintenance and repair. Testing
       Catalogs
6865
6870 Meters
6875 Governors. Regulators
6880 Burners
6882 Flame monitors
       Ignition devices
       Including electric ignitors
6885 General works
6887 Pilot lights

Heating and ventilation
    Cf. TH7201+ Heating of buildings, including special aspects of both heating and ventilation
    Cf. TH7647+ Ventilation only

7005 Periodicals, societies, congresses, etc.
7007 Dictionaries and encyclopedias

General works
7010 Early to 1860
7011 1860-
7012 Textbooks
7015 General special
       Including climatic factors
Heating and ventilation -- Continued

Legislation
see class K

Heating engineering. Industrial heating
Cf. TH6552+ Heating of water
Cf. TJ255+ Engines using heat as a source of power
Cf. TP363 Heating, drying, cooling, etc.

7121 General works
7124 Pocketbooks, tables, etc.
7135 Stoves, etc., for commercial kitchens
    Kitchen stoves and ranges see TX657.S3+
    Kitchen boilers see TH6563
    Stove heating see TH7435+
    Stove manufacture see TS425

Industrial furnaces
Class furnaces for special uses in the field of application
Cf. TK4661 Electric furnaces
Cf. TN677+ Metallurgical furnaces
Cf. TP841+ Kilns
Cf. TS231 Cupola furnaces

7140 General works
7145 Solar furnaces
    Cf. TJ809+ Solar energy
    Solar water heating see TH6561.7
    Solar heating of buildings see TH7413+

Heating of buildings
Including domestic heating
Class here also works that discuss special aspects of both heating and ventilation of buildings

7201 Periodicals, societies, etc.
7205 Congresses
7207 Collected works (nonserial)
7209 Dictionaries and encyclopedias
    Directories
7212 General works
7213 Special localities
    History
7215 General works

General works
7221 Early to 1860
7222 1860-
7223 Textbooks
7224 Popular works. Juvenile works
7225 Pocketbooks, tables, rules, etc.
7226 General special
7227 Addresses, essays, lectures
7231 Study and teaching
7325 Specifications
7331 Drawings
    Estimates. Measurements. Quantities and costs
7335 General works
7337 Schedules of prices
7338 Superintendence
7339 Inspection
7341 Testing
7345 Equipment and supplies
Heating and ventilation

Heating of buildings -- Continued

TH 7355 Catalogs of heaters and fixtures (General)
TH 7391.A-Z Special rooms, A-Z
TH 7392.A-Z Special classes of building. By name, A-Z

Cf. TH7684+ Ventilation of special classes of buildings

TH 7392.A6 Apartment houses
TH 7392.A8 Atomic bomb shelters
TH 7392.A9 Automobile service stations
TH 7392.C56 Chemical plants
TH 7392.C6 Churches
College buildings see TH7392.S35

TH 7392.C65 Commercial buildings
TH 7392.C7 Creameries
Dwellings see TH7201+
Factories see TH7392.M6

TH 7392.F3 Farm buildings
TH 7392.F6 Foundries
TH 7392.G37 Garages
Hospitals see RA969

TH 7392.I53 Industrial buildings
TH 7392.M2 Machine shops
TH 7392.M6 Mills and factories
TH 7392.O35 Office buildings
TH 7392.P33 Packinghouses
TH 7392.P8 Prisons

TH 7392.P9 Public buildings
TH 7392.R3 Railroad structures and buildings
TH 7392.S35 School buildings. University and college buildings
TH 7392.S65 Sports facilities
TH 7392.T34 Tall buildings
TH 7392.T47 Textile factories
TH 7392.T5 Theaters
University buildings see TH7392.S35

TH 7395.A-Z Special installations. By name, A-Z
Cf. TH7685.A+ Ventilating installations

Heating by special fuels or forms of energy
Cf. TH7424+ Wood heating in fireplaces
Cf. TH7437+ Wood stove heating

TH 7400 Coal heating
Cf. TH7428+ Grate heating
Cf. TH7443+ Coal stove heating

Oil heating
Cf. TH7447+ Oil stove heating
Cf. TH7466.O6 Central heating by oil

TH 7402 Periodicals, societies, congresses, etc.
TH 7403 General works

Gas heating
Cf. TH7434 Gas fireplace heating
Cf. TH7453+ Gas stove heating
Cf. TH7466.G3 Central heating by gas

TH 7405 Periodicals, societies, congresses, etc.
TH 7406 General works

Electric heating
Cf. TH7434.5+ Electric radiant heating
Cf. TH7638 Heat pump systems
Heating and ventilation
Heating of buildings
  Heating by special fuels or forms of energy
  Electric heating -- Continued
  7409  Periodicals. Societies. Congresses
  7410  General works
Solar heating
  Cf. TK1056 Solar powerplants
  7413  General works
  7413.5  Central solar heating plants with seasonal storage
  7414  Solar houses
Geothermal heating
  7416  General works
  7416.5  Geothermal district heating
  7417  Geothermal space heating
  7417.5  Ground source heat pump systems
Local heating
  Cf. TH2055 Radiative heating (Open fires)
  Cf. TH7435+ Convective heating (Stoves)
  7418  General works
  7419  General special
  7420  Theory
    For fuel heating see TP315+
Radiative heating. Open fires
  7421  General works
  7422  Catalogs of fireplace and grate fixtures
    For fireplaces see TH7425+
    For grates see TH7428+
    Cf. TH2055 Building fittings
  7423  Charcoal fires. Braziers
Fireplace heating with wood
  7424  General works
    Fireplaces
  7425  General works
  7426.A-Z  Special fireplaces. By name of manufacturer, etc., A-Z
    Including catalogs
  7427 A-Z  Details and fittings, A-Z
  7427.A5  Andirons
Grate heating with coal, etc.
  7428  General works
    Grates
  7429.A1  General works
  7429.A2-Z  Special types of grate. By name, A-Z
  7430  Catalogs (General)
  7431.A-Z  Special grates. By name of manufacturer, etc., A-Z
Details and fittings
  7432  General works
  7433  Grate frames. Summer pieces
  7434  Gas fireplace heating. Gas logs
    Gas stove heating see TH7453+
    Electric radiant heating. Radiant heaters
  7434.5  General works
  7434.7  Panel type installations
Convective heating. Stoves
  Cf. TS425 Manufacture of stoves
  Cf. TX657.S3+ Kitchen stoves
Heating and ventilation
  Heating of buildings
    Local heating
      Convective heating. Stoves -- Continued
        7435
        General works
        7436.A-Z
        Special types, other than by fuel, A-Z
        7436.B3
        Base-heating stoves
        7436.D6
        Double jacket stoves
          With air chamber for air heating
        7436.E4
        Earthenware stoves
        7436.M37
        Masonry stoves
        7436.5
        Biomass stove heating
          Wood stove heating
            7437
            General works
            Wood stoves
            7438
            General works
            Catalogs
            7440.A-Z
            Special wood stoves. By name of manufacture, etc., A-Z
            7441
            Details and fixtures, A-Z
          Coal and coke stove heating
            7443
            General works
            Catalogs
            7445.A-Z
            Special stoves. By name of manufacture, A-Z
            7446.A-Z
            Details and fixtures, A-Z
          Oil and gas stove and radiator heating
            7447
            General works
            Oil stove and radiator heating
              7448
              General works
              Oil stoves and radiators
              7449
              General works
              Catalogs
              7450
              Kerosene heaters
              7450.5
              Special gas stoves. By name of manufacturer, A-Z
              7451.A-Z
              Details and fixtures, A-Z
            Gas stove heating
              Cf. TH7434 Gas grate heating
              Cf. TH7447+ Oil and gas stove heating
            7453
            General works
            Gas stoves
            7454
            General works
            Catalogs
            7455
            Special gas stoves. By name of manufacturer
            7456.A-Z
            Details and fixtures, A-Z
            7457.A-Z
            Burners
            7457.B8
            Draft hoods
            7457.D7
            Stove heating with other fuels. By fuel, A-Z
            7458.A-Z
            Grass heating and stoves
            7458.G7
            Local heating of special classes of buildings see TH7392.A+
    Central heating
      Cf. TH7511+ Hot water heating
      Cf. TH7561+ Steam heating
      Cf. TH7601+ Hot air heating
      Cf. TH7641+ Heating from central stations
    7461
    General works
    7463
    General special
      Including gas heating
Heating and ventilation
Heating of buildings
Central heating -- Continued

7465
Theory
7466 A-Z
Special fuels, A-Z
7466 G3
Gas
7466 O6
Oil
7466 W66
Wood
7466.5
Regulators. Thermostats
Cf. TH7687+ Air conditioning

Hydronic systems
Class here works discussing both hot water and steam heating combined
Cf. TH6703+ Pipefitting
7467
General works
Details for hydronic systems
7469 A1
General works
7469 A2-Z
Special. By name of manufacturer, etc., A-Z
Including histories of manufacturing firms

Furnaces and boilers for heating
Cf. TH7538+ Hot water furnaces and boilers
Cf. TH7588+ Steam furnaces and boilers
Cf. TJ263.5 Boilers (General)

7470
General works
7471
Testing
7473
Stationary or bricked-in
7475
Movable or independent
7476 A-Z
Special furnaces and boilers. By name of manufacturer, etc., A-Z
7477
Door and damper regulators
7478
Piping, valves and other fittings
Cf. TH6703+ Pipefitting
7479
Air vents, etc.
Radiator
Cf. TH7547 Radiators for hot water heating
Cf. TH7597 Radiators for steam heating
7480
General works
Direct radiators and coils
7481
General works
Coils
7482
General works
7483
Flat coils
7484
Wall coils
Radiator
7486
General works
7487
Sectional (cast iron)
7488
Tubular, etc.
7490
Direct-indirect radiators. Ventilating radiators
Indirect radiators
7492
General works
7493
Box coil radiators
7495 A-Z
Special radiators. By name of manufacturer, etc., A-Z
Hot water heating and fixtures
Cf. TH6703+ Pipefitting
7511
General works
7512
Pocketbooks, tables, etc.
7513
Specifications, drawings, etc.
7515
Theory
Heating and ventilation
  Heating of buildings
  Central heating
  Hydronic systems
  Hot water heating and fixtures -- Continued
  Low-pressure hot water heating (with dome boilers)
  7518  General works
  7519  Distribution
  Including two-pipe system, one-pipe system, and overhead system
  7529  Special details or fixtures (not A-Z)
  Including furnaces, boilers, and appurtenances
  High-pressure hot water heating (with coil boilers)
  7530  General works
  7533  Distribution
  7534.A-Z  Special details or fixtures, A-Z
  Including furnaces, boilers, etc.
  7535  Forced circulation systems
  7535.5  Radiant floor heating
  Details or fixtures of hot water heating
  7536  General works
  7537.A-Z  Special. By name of manufacturer, etc., A-Z
  Furnaces and boilers
  Cf. TH7470+ Furnaces and boilers for both steam and hot water heating
  7538.A1  General works
  7538.A2-Z  Special. By name of manufacturer, etc, A-Z
  7539  Stationary or bricked-in furnaces and boilers
  7540  Movable furnaces and boilers
  7541  Door and damper regulators
  7542  Expansion tanks
  7543  Special piping and valves
  7545  Air vents and other fittings
  7547  Radiators for hot water heating
  Cf. TH7480+ Radiators for steam and hot water heating
  (7548)  Hot water heating of special classes of buildings
  see TH7392
  (7549)  Hot water heating of special installations
  see TH7395
Steam heating and fixtures
  Cf. TH6703+ Pipefitting
  7561  General works
  7562  Pocketbooks, tables, etc.
  7563  Specifications, drawings, etc.
  7565  Theory
  (7567)  Systems of distribution, etc.
  Including two-pipe system, one-pipe system, and overhead or drop system
  Low-pressure steam heating
  7570  General works
  7571  Gravity systems (water returned to boiler)
  7575  Condense-waste systems (water discharge)
  Live steam systems (from engine boilers)
  7576  General works
  7577  Exhaust-steam utilization systems
  7578.A-Z  Special details, A-Z
  Cf. TJ444 Oil separators (General)
  7578.B3  Back pressure valves
  7578.G7  Grease separators
Heating and ventilation
  Heating of buildings
    Central heating
      Hydronic systems
        Steam heating and fixtures
          Low-pressure steam heating
            Special details, A-Z -- Continued

7578.V3
(7580)
7583.A-Z
7586
7587.A-Z
7588.A1
7588.A2-Z
7589
7590
7591
7593
7595
7597
(7598)
(7599)
7601
7602
7603
7608
7609
7610
7619.A-Z
7621
7622.A-Z
7623
7624.A-Z
7625
7626
7627
(7631)
(7632)
7633

Warm-air heating and fixtures
  General works
  Specifications, drawings, etc.
  Theory
  General works
  Cold air supply, etc.
  Construction
    Cf. TS250 Sheet metalwork
    Cf. TS600+ Tinsmithing

Systems
  General works
  Special. By name, A-Z
  Details
  General works
  Special. By name of manufacturer, etc., A-Z
  Furnaces and appurtenances
    Cf. TH7609 Construction
  General works
  Special. By name of manufacturer, etc., A-Z
  Flues and piping
  Registers
  Pipe dampers and draft registers
(7631)  Warm air heating of special classes of buildings
  see TH7392
(7632)  Warm air heating of special installations
  see TH7395
  Special warm air heating
  Warm air heating with heated air not admitted to rooms but removed by convection through floors, etc.
Heating and ventilation

Heating of buildings

Central heating

Warm-air heating and fixtures

Special warm air heating -- Continued

Combination systems

Including warm air and steam systems

7635

Heat pump systems

For ground source heat pump systems see TH7417.5

Cf. TH7687+ Air conditioning

Cf. TJ262 Theory

Heating for a community from a single plant

For geothermal district heating see TH7416.5

7641

General works

7643

Heating pipes and mains

Ventilation of buildings

Periodicals, societies, congresses, etc. see TH7005

History

7647

General works

Special regions or countries

United States

7648

General works

7649.A-.W

States, A-W

7650.A-Z

Cities, A-Z

7651.A-Z

Other regions or countries, A-Z

General works

7652

Early to 1800

7653

1800-

7654

Textbooks

7655

Popular works. Juvenile works

7656

Pocketbooks, tables, and rules

7657

General special

Including use of ozone

7658

Addresses, essays, lectures

Natural ventilation

Class here natural draft, without fans, etc.

7674

General works

7675.A-Z

Special systems. By name of manufacturer, A-Z

Artificial ventilation

Including ventilators

7678

General works

7681

General special

7682.A-Z

Special systems, A-Z

7682.D45

Demand controlled ventilation systems

7682.D57

Displacement ventilation

7682.E44

Emergency ventilation

7683.A-Z

Details, fixtures, etc., A-Z

7683.A25

Air curtains

7683.A3

Air filters. Air washers

7683.D8

Air ducts

7683.F3

Fans

7683.H42

Heat exchangers

7683.L7

Louvers

7683.P8

Punkas

7683.R4

Registers and flues

Cf. TH7626 Heating
Heating and ventilation

Ventilation of buildings

Details, fixtures, etc., A-Z -- Continued

Ventilators and chimney tops

Special ventilation

7684 A-Z

Special buildings and facilities, A-Z

7684 A6

Apartment houses

7684 B35

Basements

7684 C44

Chemical plants

7684 C6

Churches

7684 D9

Dwellings

7684 F2

Factories

7684 F3

Farm buildings

7684 F45

Flour mills

Hospitals see RA969

7684 K5

Kitchens

7684 M2

Machine shops

7684 N83

Nuclear facilities

7684 P7

Power plants

7684 P75

Printing plants

7684 P8

Public buildings

7684 R3

Railroad repair shops

Schoolhouses see LB3244

7684 S55

Slaughterhouses

7684 T25

Textile factories

7684 T3

Theaters

7685 A-Z

Special ventilating installations, A-Z

e.g.

7685 G8

Great Britain. House of Commons

Air conditioning, cooling, etc.

7687 A1

Periodicals, societies, etc.

7687 A2-Z

General works

7687 5

General special

Including noise

7687 7

Systems and details

7687 75

Air conditioning from central stations

7687 78

Chilled beams

7687 8

Humidity control

7687 85

Gas air conditioning

7687 9

Solar air conditioning

7687 95

Variable air volume systems

7688 A-Z

Special classes of building, A-Z

7688 B3

Bakeries

7688 C64

Commercial buildings

Factories

7688 F2

General

7688 F24

Food

7688 F27

Paper

7688 F3

Textile

7688 H6

Homes. Dwellings

7688 L3

Laboratories

7688 O4

Office buildings

7688 O44

Offshore structures. Artificial islands

7688 P3

Packinghouses

7688 P7

Printing plants

7688 P78

Public buildings

166
Heating and ventilation
  Ventilation of buildings
    Air conditioning, cooling, etc.
    Special classes of building, A-Z -- Continued

7688.P8  Public shelters
          School buildings see LB3244
7688.W3  Warehouses

Dust removal (by pneumatic suction, etc.)

7692  General works
7694  Clean rooms
7695.A-Z  Special systems. By name, A-Z
7695.E4  Electrostatic precipitation
7695.I52  Inertial separation
7695.S6  Sonic coagulation
7695.V2  Vacuum system
7695.V45  Venturi scrubber
7696  Details. Fixtures
7697.A-Z  In special buildings and operations. By type, A-Z
7697.A8  Asbestos industry
7697.B75  Brickworks
7697.B8  Building materials industry
7697.B82  Bulk solids handling
7697.C4  Cement industries
7697.C54  Chemical plants
7697.C58  Coal preparation plants
7697.C6  Compressor stations
7697.C7  Crushed stone industry
7697.E45  Electric power plants
7697.F2  Factories and workshops
7697.F55  Food processing plants
7697.F6  Foundries
7697.G67  Grain elevators
7697.G7  Granite plants
7697.I76  Iron industry
7697.M4  Metallurgical plants
          Mine dust control see TN312
7697.M56  Mineral industries
7697.O7  Ore-dressing plants
7697.P5  Plastics plants
7697.Q37  Quarries
7697.R4  Refractories industry
7697.R6  Rolling mills
7697.S3  Sand and gravel industry
7697.T4  Textile factories
7697.T5  Tin industry
7697.W4  Welding shops
7697.W6  Woodworking industries
7698.A-Z  Special installations. By name, A-Z
          e.g.
          Spokane Post Office
7699.A-Z  Other hygienic aspects, A-Z
7699.D4  Deodorization

Illumination. Lighting
  Cf. NK2115.5.L5 Lighting as an element in interior decoration
  Cf. TH7910+ Gas lighting
  Cf. TK4125+ Electric lighting
Illumination. Lighting -- Continued

7700  Periodicals. Societies. Collections
7703  General works
7710  Pocketbooks, tables, etc.
7715  Standards. Specifications
7720  Safety measures
7723  Shadows
7725  General special
   Natural lighting
7791  General works
7792  Easement of light. Light rights. Ancient light
7795  Luxfer prisms
7799  Sidewalk lights
   Artificial lighting
7900  General works
   Gas lighting
7910  General works
7915  Popular works. Consumers' guides, etc.
   Incandescent gas lighting
7953  General works
7955.A-Z  Special systems, A-Z
7955.W3  Washington system
7955.W4  Welsbach system
   Lighting fixtures
   Cf. TK4198 Electric lighting fixtures
   Gas and electric
7960  General works
7963  Specifications
   Catalogs
7965  To 1880
7967  1880-
7970.A-Z  Other special, A-Z
7970.L35  Lampposts
7970.R4  Reflectors
7975.A-Z  Special types of buildings, A-Z
7975.C65  Commercial buildings
7975.D8  Dwellings
7975.F2  Factories and workshops
   Hospitals see RA969.5
7975.P82  Public buildings
   Cf. TK4399.P8 Electric lighting
   Workshops see TH7975.F2
   Acoustics in buildings see TH1725
   Decoration and decorative furnishings
   Class here technical works for the artisan
   For artistic interior decoration see NK1700+
8001  Periodicals
8024  Early to 1800
8025  1800-
8026  Textbooks
8031  Pocketbooks, tables, receipts, etc.
   Plastering, calcimining, etc.
8120  Periodicals, societies, etc.
8131  General works
Decoration and decorative furnishings
Plastering, calcimining, etc. -- Continued

8132
  General special
    Including drawings, estimates, ready reckoners
  Plaster
    Cf. TP888 Manufacture

8135
  General works

8137.A-Z
  Special plasters, A-Z

8137.G8
  Gypsum plasters

8139
  Plasterboard. Gypsum wallboard. Drywall

8161
  Calcimining

8181
  Whitewashing

Glazing, painting, wall decoration, etc.

8203
  General works
  Glazing
    Cf. TH2270+ Windows and doors and their fittings
    Cf. TP812.A1+ Glazes, enamels, etc.
    Cf. TP823 Technology of ceramic decoration

8251
  General works
  Ornamental, stained, art, or leaded glass (Use)
    Cf. NK5300+ Art

8271
  General works

8275
  Catalogs

House painting
  see TT300+

(8303)
  General works
  see TT320

(8321)
  Exterior painting and material
  see TT320+

(8351)
  Interior painting and material
  see TT323

Wall decoration
  Cf. NK1700+ Art industries

(8403)
  General works
  see NK2119

Paperhanging and wallpaper
  Cf. NK3375+ Art industries

8423
  General works

8441
  Paperhanging
  Wallpaper
    Prefer NK3375+

8461
  General works

8463.A-Z
  Special. By name of manufacturer, etc., A-Z

8471
  Hanging burlap, buckram, lincrusta, etc.
    Cf. NK3175+ Art industries

8481
  Tapestrying and tapestry
    Cf. NK2975+ Art industries
    Cf. TS1780 Manufactures
    Cf. TT849 Tapestry (Handicrafts)

Tilelaying and tile

8521
  General works

8531
  Tilelaying
Decoration and decorative furnishings

Tilelaying and tile -- Continued

Tile. Decorative and ceramic tile

Class here works on tile of all materials, including plastic tile, when used for wall and ceiling decoration. Class here only works on ceramic tile when used for flooring

For other flooring materials, see TH2529

Cf. NA3705 Architectural decoration
Cf. NK4670+ Ceramics
Cf. TP837 Manufacture of tile

8541 General works
8542.A-Z Special. By name of manufacturer, etc., A-Z

Decorative woodwork

Including fretwork, grilles, etc.

Cf. NK9600+ Artistic woodwork
Cf. TH1151+ Architectural woodwork
Cf. TH2553 Interior moldings

8581 General works

Parquet floors see TH2529.W6

(8601) Draping and drapery

see TT390

Carpets, rugs, etc. see TS1772+

Protection of buildings

9025 General works
Against damage from natural causes
9030 General works
9031 From dampness. Waterproofing

Cf. TH2493 Guttering

9034 Microbes

Cf. TH2242 Algae as building materials
9035 Molds
9039 Weathering
9041 Pest control in buildings. Fumigation

Cf. TA423.6+ Wood preservation
Cf. TX325 Household pests

Protection of buildings from lightning

Cf. TH1061+ Fireproof building construction

General works

9057 Treatises
9058 Elementary textbooks
9061 Miscellaneous minor works, addresses, essays, etc.

Systems of protection from lightning

9092.A-Z Special systems. By name of manufacturer, A-Z

Including catalogs
Earthquakes and building see TH1095
Bombproof construction see TH1097
Stormproof construction see TH1096

Protection from fire. Fire prevention and extinction

Cf. TH1061+ Fireproof building construction
Cf. TH9057+ Protection against lightning

9111 Periodicals, societies, etc.
For local societies see TH9500+

9112 Congresses, conventions, etc.
For annual conventions of societies see TH9111

Exhibitions. Museums

9114.A1 General works
Protection from fire. Fire prevention and extinction
Exhibitions. Museums -- Continued

9114.A2-Z
By region or country, A-Z
Subarrange each country by Table T4b

9115
Collected works (nonserial)

9116
Dictionaries and encyclopedias

9116.5
Directories
History

9117
General works
Special countries see TH9500+

Biography

9118.A1
Collective

9118.A2-Z
Individual, A-Z

9119
Fire prevention as a profession
Study and teaching

Cf. TH9225+ Engineering

9120
General works
United States

9123
General works

9124.A-.W
States, A-W

9125.A-Z
Cities, A-Z

9127.A-Z
Other countries, A-Z

9128
Physical training for fire fighters

9130
Research
General works

9145
Treatises

9146
Elements

9148
Popular works. Juvenile works

9149
Miscellanea

9150
Pocketbooks, tables, etc.

Cf. HG9715 Manuals for insurance inspectors

9151
Firemen's manuals

9155
Addresses, essays, lectures

9157
Examinations, questions, etc.

9158
Fire department management

For special countries, see TH9503+

(9160)
Legislation

see class K

9176
Inspection. Fire inspectors' handbooks
Including National Board of Fire Underwriters' rules and requirements

Cf. HG9711+ Fire insurance surveys

9180
Investigation of fires

Cf. SD421.45.I58 Forest fire investigation

9182
Safety measures
Theory of fire protection, etc.

(9190)
General works

see TH9145

9195
Enclosure fires

9197
Smoking and fires

9198
Spontaneous combustion (in relation to fire)

9198.5
Static electricity and fires

Cf. TH9445.E43 Fire prevention and extinction in electrical equipment

Fire insurance engineering

Cf. TH1061+ Fireproof construction, including tests

9201
Periodicals, societies, etc.

9210
General works
Protection from fire. Fire prevention and extinction

Fire insurance engineering -- Continued

9215 Pocketbooks, tables, etc.
9220 Addresses, essays, lectures
   Study and teaching
9225 General works
   Special schools
9230 United States
9235.A-Z Other regions or countries, A-Z
9237 Laboratories

Cf. TH1061+ Fireproof building construction

9241 General works
9245 Appliances, etc.
   Fire doors see TH2278+

Cf. TH9151 Firemen's manuals

9271 Fire detectors. Combustible gas detectors
9275 Electric thermostat fire detectors
9280 Communication systems

Cf. TC173 Hydraulic engineering

9310 Theory
9310.5 General works
9310.8 Command and control
   Water supply
9311 General works
   Local see TH9503+
9323 Fire streams, nozzle forms, etc.
   Cf. TC173 Hydraulic engineering
9327 Ventilation

Special methods of fire extinction
   Including special apparatus
   Water tower systems
9332 General works
9333 For communities
9334 For individual buildings
9336 Automatic systems. Automatic sprinkler systems
9338 Chemical systems
   Cf. TH1073+ Fireproof construction (Impregnation)
   Cf. TH9362 Fire extinguishers
   Cf. TP265+ Chemistry of fire and fire prevention
9339 Explosion systems, etc.

General equipment and apparatus
   Class special equipment with special systems
9360 General works
9361 General catalogs of fire department supplies
9362 Fire extinguishers
9363 Fire pumps. Hand pumps (Portable)
   Cf. TJ903 Hand pumps (General)
9365 Fire hydrants

Vehicles
9370 General works
   Fire engines
9371 General works
9372 Juvenile works
9373 Catalogs
Protection from fire. Fire prevention and extinction

Fire extinction

General equipment and apparatus

Vehicles

Fire engines -- Continued

9374_hand fire engines
9375_Chemical fire engines
9376_Steam fire engines
9377_Gasoline fire engines

Fire hose and carts

9378_General works
9379_Hose carts
9380_Hose and nozzles

For fire stream tables see TH9323

9383_Hook and ladder trucks
9391_Fireboats

Protective clothing. Uniforms

9395_General works
9396_Breathing apparatus

Lifesaving at fires. Rescue work

Including drills, etc.

For fire escapes see TH2274

9402_General works
9410_Evacuation of buildings

Systems and apparatus

9412_Scaling ladder systems
9414_Rope systems
9416_Tubular bag systems
9418_Net or sheet systems (jumping systems)

(9425)_Special classes of buildings

see TH9445.A+

9431_Salvage of material during fires

Including protection from water

9445.A-Z_Fire prevention and extinction in special classes of buildings and facilities, A-Z

9445.A4_Aged, Housing for. Nursing homes
9445.A5_Airports
9445.A62_Apartment houses
9445.A7_Archive buildings
9445.A8_Asymlums
9445.A85_Atomic power plants
9445.B6_Bowling alleys
9445.B8_Building sites

Cathedrals see TH9445.C5

9445.C47_Chemical plants
9445.C48_Chimneys
9445.C5_Churches, cathedrals, shrines, etc.
9445.C6_Cleaning and dyeing plants
9445.C65_Computers and computer installations

Cf. TH9445.E45 Electronic data processing departments

9445.C67_Conveying machinery
9445.C68_Correctional institutions
9445.C7_Cotton gins
9445.D5_Distilleries
9445.D6_Dormitories
9445.D75_Drilling platforms
9445.D9_Dwellings
Protection from fire. Fire prevention and extinction
Fire extinction
Fire prevention and extinction in special classes of buildings and facilities, A-Z --
Continued

9445.E4 Electric power plants
9445.E43 Electrical equipment
9445.E45 Electronic data processing departments
Cf. TH9445.C65 Computers and computer installations
9445.E46 Electronic equipment
9445.E48 Elevators
9445.F35 Farms
9445.F6 Food industry
9445.F87 Furnaces
9445.G3 Garages
Garden apartments see TH9445.A62
9445.G54 Glass trade
9445.G7 Grain elevators
(9445.H3) Hangers
see TH9445.A5
Health facilities see TH9445.H7
9445.H4 Heating equipment
Heliports see TH9445.A5
Historic buildings see TH9445.M8
9445.H7 Hospitals. Health facilities
9445.H75 Hotels
Industrial buildings see TH9445.M4+
9445.L5 Libraries
9445.L8 Lumberyards
Lunchrooms see TH9445.R44
Mills and factory buildings
9445.M4 General works
9445.M45 Flour mills
9445.M5 Textile factories
9445.M6 Woodworking industries
Mines and mining see TN315
9445.M8 Museums, historic buildings, etc.
9445.N3 Navy yards and naval stations
9445.N83 Nuclear facilities
Nuclear power plants see TH9445.A85
Nursing homes see TH9445.A4
9445.O4 Office buildings
9445.O43 Offshore structures
9445.O55 Oil storage tanks
Older people, Housing for see TH9445.A4
9445.P3 Paint shops
9445.P38 Petroleum pipelines
9445.P4 Petroleum refineries
9445.P5 Piers and other waterfront structures
9445.P55 Plastics plants
9445.P8 Public buildings
9445.R44 Restaurants, lunchrooms, etc.
9445.S3 School buildings
9445.S4 Service industries
Shopping centers see TH9445.S8
Shrines see TH9445.C5
Skyscrapers see TH9445.T18
Protection from fire. Fire prevention and extinction

Fire extinction

Fire prevention and extinction in special classes of buildings and facilities, A-Z --

Continued

9445.S8
Stores, shopping centers, etc.
Cf. TH9445.U5 Underground shopping centers

9445.T18
Tall buildings. Skyscrapers

9445.T2
Tanneries
Temples see TH9445.C5
Theaters

9445.T3
General works

9445.T4
Motion picture theaters

9445.T5
Motion picture films in storehouses, etc.

9445.T7
Transportation industries

9445.T8
Tunnels

9445.U5
Underground shopping centers

9445.W2
Warehouses
Waterfronts see TH9445.P5

9446.A-Z
Fire prevention and extinction in special materials, A-Z

9446.A37
Aerosols

9446.C5
Chemicals

9446.C6
Chlorine dioxide

9446.C65
Cleaning compounds

9446.C7
Cotton and cotton fabrics

9446.D86
Dust

9446.G3
Gasoline

9446.H38
Hazardous substances

9446.H9
Hydraulic fluids

9446.H96
Hydrogen
Inflammable materials

9446.I47
General works

9446.I475
Inflammable gases

9446.I5
Inflammable liquids

9446.I55
Insecticides

9446.L57
Liquefied natural gas

9446.M3
Magnesium

9446.O95
Oxygen

9446.P38
Peat

9446.P4
Petroleum

9446.P55
Plastics

9446.P65
Polymers

9446.R3
Radioactive substances

9446.R8
Rubber

9446.S3
Salts

Fire testing of materials. Flammability of materials

9446.3
General works

9446.5.A-Z
Special materials, A-Z

9446.5.B44
Belts and belting

9446.5.C35
Carpets

9446.5.E43
Electric insulators and insulation

9446.5.F87
Furniture

9446.5.G55
Glass

9446.5.P45
Plastics

9446.5.P65
Polymers

9446.5.U63
Upholstery

9446.5.W66
Wood products
Protection from fire. Fire prevention and extinction
Fire extinction -- Continued
9447
Private fire departments for individual establishments
Fires
9448
General works
Including descriptions of the great conflagrations
9449.A-Z
Special fires. By city, A-Z
Class here only technical reports
For popular descriptions, see local history in classes D-F
Fires in mines see TN315
Forest fires see SD420.5+
Grassland fires see SD421.5
Ground cover fires see SD421.47+
Wildfires see SD420.5+
Protection from fire in special countries and cities
Including city fire departments and fire fighters's associations.
9500
General collections
9501
America
North America (United States and Canada)
9502
General works
United States
9503
General works
9504.A-.W
Special states, A-W
Subarrange each state by Table T3a
Including works on separate counties
Cutter numbers listed below are provided as examples
9504.D6-.D69
District of Columbia (Table T3a)
9504.N7-.N79
New York (State) (Table T3a modified)
9504.N71
State fire marshal's report
9505.A-Z
Special cities, A-Z
Subarrange each city by Table T3b
e.g.
9505.N5-.N509
New York (N.Y.) (Table T3b)
Washington (D.C.) see TH9504.D6+
Canada
9506.A1-.A6
General works
9506.A8-Z
Provinces, A-Z
9507.A-Z
Special cities, A-Z
Other countries
Mexico
9507.5
General works
9508.A-Z
Local, A-Z
Central America
9510.A1-.A6
General works
9510.A8-Z
By region or country, A-Z
9511.A-Z
Special cities, A-Z
West Indies
9512.A1-.A6
General works
9512.A7-Z
Special islands, A-Z
9513.A-Z
Special cities, A-Z
South America
9514
General works
9516
Argentina
9518
Bolivia
9521
Brazil
9523
Chile
Protection from fire. Fire prevention and extinction
Protection from fire in special countries and cities
Other countries
South America -- Continued

9525
  Colombia
9527
  Ecuador
9528
  Guiana
9529
  Guyana
9530
  Suriname
9531
  French Guiana
9532
  Paraguay
9533
  Peru
9534
  Uruguay
9535
  Venezuela

Europe
9535
  General works
9537
  Great Britain. England
9539.A-Z
9541
  Ireland
9543
  Scotland
9544
  Wales
9545
  Austria
9546.A-Z
  Special cities, A-Z
9547
  Belgium
9549
  Denmark
9551
  France
9553
  Germany
9554.A-Z
  Special cities, A-Z
9555
  Greece
9557
  Holland
9559
  Italy
9561
  Norway
9563
  Portugal
9565
  Russia. Soviet Union. Russia (Federation)
9567
  Spain
9569
  Sweden
9571
  Switzerland
9575.A-Z
  Other regions or countries, A-Z

Asia
9580
  General works
9581
  China
9583
  India
9585
  Japan
9587
  Iran
9589
  Asia Minor. Turkey
9591
  Siberia
9593.A-Z
  Other regions or countries, A-Z

Africa
9594
  General works
9596
  Egypt
9597.A-Z
  Other regions or countries, A-Z

Australia
9598.A1
  General works
Protection from fire. Fire prevention and extinguition
Protection from fire in special countries and cities
Other countries
Australia -- Continued
9598.A6-Z
  Local, A-Z
  New Zealand
9598.5.A1
  General works
9598.5.A6-9598.Z
  Local, A-Z
  Pacific islands
9599.A1
  General works
9599.A6-Z
Protection from burglary, sabotage, etc. Security in buildings
  Cf. HV6646+ Theft
  Cf. HV8290+ Guards, watchmen, etc.
9701
  Periodicals, societies, congresses, etc.
9705
  General works
  Burglar-proof construction
9720
  General works
9725.A-Z
  Details, A-Z
9725.W5
  Window guards
Protection equipment and devices
9730
  General works
9732
  Fences
9734
  Safes and vaults
9735
  Locks. Electronic locking devices
    Cf. TH2279 Door fittings
    Cf. TS519+ Locksmithing
9737
  Electronic security systems
9739
  Detection and alarm equipment. Burglar alarms
9745.A-Z
  Security of special buildings, A-Z
    Archives see CD986
    Art museums see N463
9745.D85
  Dwellings
9745.F3
  Factories
    Health facilities see RA969.95
    Houses see TH9745.D85
    Libraries see Z679.6
    Museums see AM148
9745.S59
  Skyscrapers
9745.S7
  Stores, Retail
Mechanical engineering and machinery

Periodicals and societies. By language of publication

1. English
2. French
3. German
4. Other languages (not A-Z)
5. Congresses
6. Exhibitions. Museums

6.A2-Z. By region or country, A-Z
   Subarrange each country by Table T4b

7. Collected works (nonserial)
9. Dictionaries and encyclopedias

Directories
   For directories of makers and dealers in machinery tools, supplies, etc. see TJ1170
11. General and the United States
   Subarrange each state by Table T4a

14. Philosophy of machinery

History
15. General works
16. Ancient
17. Medieval
18. Modern
19. Nineteenth century
20. Twentieth century
21-127. Country divisions (Table T1a)
   Add country number in table to TJ0
130.A-Z. Special companies (History, description, etc), A-Z

Biography
139. Collective
140.A-Z. Individual, A-Z

General works on mechanical engineering
144. Early to 1800
145. 1800-
146. Elementary textbooks
147. Popular works. Juvenile works
148. Laboratory practice and student manuals. Testing
   Cf. TA416+ Engineering laboratories
151. Pocketbooks, rules, tables, etc.
153. General special
   Including data processing, costs, etc.
155. Addresses, essays, lectures
157. Mechanical engineering as a profession

Study and teaching
158. General works
159. Problems, questions, etc.

Research
159.5. General works
159.7.A-Z. By region or country, A-Z

Communication in mechanical engineering

160. General works
160.5. Information centers

163. General works
Mechanical and electrical engineering combined -- Continued

163.12
  Mechatronics
  For microelectromechanical systems see TK7875

Power resources
  For special power resources, see the resources e.g. TP315+ Fuel; TK9001+ Atomic power; etc.
  Cf. TJ260 Heat as a source of power
  Cf. TJ807+ Renewable energy sources
  Cf. TN263.5 Energy minerals

163.13
  Periodicals. Societies. Serials

163.15
  Congresses

163.155.A1
  Exhibitions. Museums

163.155.A2-Z
  By region or country, A-Z
  Subarrange each country by Table T4b

163.16
  Dictionaries and encyclopedias

163.165
  Directories

163.17
  Information services

163.18
  Geographic information systems

163.2
  General works

163.23
  Juvenile works

163.235
  Handbooks, tables, etc.

163.24
  Addresses, essays, lectures

163.245
  Energy audits

163.25.A-Z
  Special regions or countries, A-Z

Energy conservation
  Cf. HD9502+ Economics of power resources and energy policy
  Cf. TN860+ Petroleum conservation

163.26
  Periodicals. Societies. Serials

163.27
  Congresses

163.28
  Dictionaries and encyclopedias

163.3
  General works

163.35
  Juvenile works

163.4.A-Z
  Special regions or countries, A-Z

  Biography

163.45
  Collective

163.46.A-Z
  Individual, A-Z

163.5.A-Z
  Energy conservation or consumption in special industries, facilities, etc., A-Z

163.5.A37
  Agriculture
  Air transport see TJ163.5.T7
  Apartment houses see TJ163.5.D86

163.5.B84
  Buildings

163.5.C45
  Cement industries

163.5.C54
  Chemical industry

163.5.C57
  Churches. Religious institutions
  Colleges see TJ163.5.U5

163.5.C65
  Construction industry

163.5.D38
  Data processing service centers

163.5.D86
  Dwellings

163.5.F3
  Factories

163.5.F5
  Finishing industry

163.5.F6
  Food industry
  Foundries see TJ163.5.M48

163.5.G55
  Glass manufacture
  Health facilities and hospitals see RA967

163.5.H4
  Heating plants

163.5.H67
  Hotels. Motels
Energy conservation
   Energy conservation or consumption in special industries, facilities, etc., A-Z -- Continued

163.5.M48   Metallurgical plants
163.5.M54   Military bases
163.5.M56   Mineral industries
163.5.M87   Museums
163.5.O35   Office buildings
163.5.P33   Package goods industry
163.5.P37   Paper and pulp mills
163.5.P47   Petroleum refineries
163.5.P48   Plastics industry
163.5.P68   Power plants
   Religious institutions see TJ163.5.C57
163.5.R64   Rolling mills
163.5.R82   Rubber industry
   Schools see TJ163.5.U5
163.5.S67   Sports facilities
163.5.S83   Steelworks
163.5.S85   Stores, Retail
163.5.S93   Sugar industry
   Supermarkets see TJ163.5.S85
   Taverns see TJ163.5.H67
163.5.T48   Textile industry
163.5.T7    Transportation
163.5.U5    Universities and colleges. Schools
163.5.W36   Waterworks
163.5.W66   Wood-using industries

Power (Mechanics)

163.6       Periodicals. Societies. Serials
163.7       Congresses
163.8       Dictionaries and encyclopedias
163.9       General works
163.95      Juvenile works
164         Power plants (General)
   Cf. TJ395+ Steam
   Cf. TK1191+ Electric
   Cf. TK4399.P6 Electric lighting

165         Energy storage
   Cf. TJ260 Thermal energy storage
   Cf. TJ541 Flywheels
   Cf. TJ981+ Compressed air
   Cf. TK2980+ Electric energy storage

166         Safety measures and devices
   Cf. TJ1177 Machine shops

168         General catalogs of mechanical engineering equipment

170         Mechanics applied to machinery. Dynamics

173         General special
   Including work diagrams

174         Maintenance and repair of machinery

175         Principles of mechanism. Kinematics of machinery

177         Vibration of machinery

177.5       Alignment of machinery

179         Noise in machinery
   Cf. TD893.6.M3 Noise in machine shops

Mechanical movements
Mechanical movements -- Continued

181
   General works
181.3 Special movements and devices
181.5 Perpetual motion
181.6 The wheel
181.6 Intermittent-motion mechanisms
181.7 Geneva mechanisms
181.8 Straight-line mechanisms
181.9 Pantograph
   Belt gearings, belts, pulleys, etc. see TJ1100+
   Links and link motion. Cranks
      Cf. TJ762.C73 Motors
182
   General works
183 Hooke's and other link couplings
183.5 Rolling contact
   Toothed gears. Gearing
      General works
184 Tables, lists, etc.
185 Laying out gear teeth. Odontographs
186 Gear-cutting machines
187 Catalogs
   Special gears
188 Spur gears
189 Racks (Racks and pinions)
190 Annular gears
191 Stepped, twisted, and helical gears
192 Bevel gears
      General works
193 Miter wheels
194 Screw bevel gears
196 Screw gears see TJ192
200 Worm gears
202 Other forms of gears
      Including internal gears, reduction gears, asymmetric gears
204 Transmission gears
      Cf. TL260+ Automobiles
206 Cams
207 Levers
208 Vibrators
209 Gyroscopes
      Cf. QA862.G9 Analytic mechanics
      Cf. TL589.2.C58 Compass (Gyroscope)
      Cf. TL589.2.O6 Optical gyroscope
210 Springs
   Mechanical devices and figures. Automata. Ingenious mechanisms. Robots (General)
      For industrial robots see TS191.8
      Cf. ML1050 Automatic musical instruments
      Cf. S678.65 Robotics in agriculture
      Cf. TL1097 Space robotics
210.2 Periodicals. Societies. Serials
210.3 Congresses
210.4 Dictionaries and encyclopedias
210.5 Directories
211 General works
211.15 Popular works
211.2 Juvenile works
Mechanical devices and figures. Automata. Ingenious mechanisms. Robots (General) -- Continued

211.25 Vocational guidance
211.26 Study and teaching
    Cf. TJ211.49 Human factors
211.28 Moral and ethical aspects
211.3 Robot vision
211.34 Autonomous underwater vehicles
    Including robotic fish and submarine robots
211.35 Control systems
211.36 Microrobots
211.37 Evolutionary robotics
211.4 Robot motion. Robot dynamics
211.412 Robot kinematics
211.415 Mobile robots
211.4152 Parallel robots
211.416 Personal robotics
211.417 Error detection and recovery
211.419 Calibration
211.42 Robot wrists
211.43 Robot hands
211.45 Programming
211.46 Search and rescue
211.47 Computer simulation
211.49 Human factors
    Cf. TJ211.28 Moral and ethical aspects
211.495 Autonomous robots
211.5 Specifications and standards
Control engineering systems. Automatic machinery (General)
    Cf. HD6331+ Labor displacement
    Cf. T59.5 Automation
    Cf. TA165 Industrial instrumentation
    Cf. TJ1180+ Automatic machine tools
    Cf. TS156.8 Process control
212 Periodicals. Societies. Collected works
212.2 Congresses
212.5 Dictionaries and encyclopedias
213 General works
213.5 Popular works. Juvenile works
213.7 Addresses, essays, lectures
213.75 Study and teaching
213.8 Problems, exercises, etc.
213.9 Laboratory manuals
213.95 Reliability
Control systems
214 Servomechanisms
214.5 Motion control devices
215.5 Multiagent systems
    Class here general works on multiagent systems, for systems applied to a specific field, see the field, e.g. TJ211.415 Mobile robots
216 Feedback control systems
216.5 Feedforward control systems
217 Adaptive control systems
217.2 Robust control
217.5 Intelligent control systems
217.6 Predictive control
Control engineering systems. Automatic machinery
Control systems -- Continued

217.7  Real-time control
218  Carrier control systems
218.5  Relay control systems
218.7  Binary control systems
219  Pneumatic control systems
220  Linear control systems
220.3  Nonlinear control systems
220.5  Sliding mode control
221  Passivity-based control
222  Supervisory control systems
  Including SCADA systems

223.A-Z  Special, A-Z
223.A25  Actuators
223.C45  Counters
  Digital control see TJ223.M53
223.E4  Electromagnets
223.E65  Equalizers
223.L5  Level indicators
223.M3  Magnetic devices
223.M53  Microprocessors. Microcomputers. Digital control
  Cf. QA76.6+ Computer programming
  Cf. TK7895.M5 Computer hardware
  Optoelectronic devices see TJ223.P5
223.P4  Perceptrons
223.P5  Photoelectronic devices. Optoelectronic devices
223.P55  PID controllers
223.P67  Positioners
  Including micropositioners
223.P76  Programmable controllers
223.R3  Radioactive measurements
223.S45  Semiconductors
223.S6  Solions
223.T4  Thermometers, etc.
223.T5  Timers
223.T75  Transducers
223.V3  Valves

225  Applications (General)
  For special applications, see field of application, e.g. TJ1225 Milling machines numerically
controlled

Machine design and drawing
  Including construction if contained in the same works
  For the design of special machines, see under each machine
  For mechanical drawing see T351+

227  Drafting room practice
230  General works
233  General special
235  Graphic statics applied to machinery
240  Atlases and collections of designs and plans
241  Machinery manufacturing (General)
  For special types of machinery and machine-building processes, see under each machine or
  process, e.g. TJ1125+ Machine shop practice; TK2331 Electric machinery; TN345 Mining
  machinery; TS225+ Forging; TS228.99+ Founding; TS1525 Textile machinery
  Cf. HD9705+ Machinery trade and manufacture
243  Machine parts
245  Specifications for machinery
245.5  Quality control of machinery
246  Packing. Gaskets. Sealing
   Cf. TJ529 Steam engine cylinder packing
247  Diaphragms
247.5  Bellows
248  Mechanical models
249  Erecting work. Foundations
   Prime movers in general
250  General works
253  Testing
254  Governors and governing
   Cf. TJ550+ Steam engines
   Cf. TJ1055 Machinery exclusive of prime movers
Combustion engineering
   Cf. QD516 Thermochemistry
   Cf. TH7140+ Industrial furnace
   Cf. TJ324.7 Furnaces
   Cf. TJ756 Internal combustion engines
   Cf. TJ773 Explosion or ignition devices
   Cf. TJ797 Diesel engines
   Cf. TP315+ Fuel
254.5  General works
254.52  Air-fuel ratio
254.7  Combustion chambers
   Cf. TL709.5.C55 Jet engines
Heat engines. Heat engineering
   Class here engines using heat as a source of power, including thermal energy systems
   For hot-air engines see TJ765
255  General works
255.5  Materials
   Including ceramic materials
260  Heat in its applications, as a source of power, etc
   Class here heat from the mechanical engineering standpoint
261  Thermofluid systems. Thermofluids. Thermofluid mechanics
   For particular thermofluid systems, see the system, e.g., TJ262, Heat pumps
262  Heat pumps
   Cf. TH7638 Heating and air conditioning
Heat exchangers
   For special applications, see under machine or process, e.g. TJ778 Gas turbines; TP363
   Heating, drying, cooling, evaporating, etc.
263  General works
263.2  Thermosyphons
263.3  Kalina cycle systems
263.5  Boilers (General)
   Cf. TH7470+ Heating
   Cf. TJ281+ Steam boilers
264  Heat pipes
264.5  Vortex tubes
265  Theory of heat engines. Thermodynamics
Turbinines. Turbomachines (General)
   Cf. TJ735+ Steam turbines
   Cf. TJ778 Gas turbines
   Cf. TJ870+ Hydraulic turbines
   Cf. VM740 Marine turbines
Turbines. Turbomachines (General) -- Continued

266
   General works
267
   Theory of turbines. Fluid, aero- and hydrodynamics of turbomachinery
267.5.A-Z
   Special topics, A-Z
267.5.B43
   Bearings
267.5.B5
   Blades
267.5.C3
   Cascades
   Compressors
267.5.C5
   General works
267.5.C6
   Supersonic compressors
267.5.D4
   Diffusers
267.5.D5
   Disks
267.5.I6
   Impellers
267.5.N5
   Noise
267.5.N6
   Nozzles
   Including supersonic nozzles, etc.

Steam engineering

Steam
   Including heated fluids
268
   Properties, etc.
270
   Tables, calculations, etc.
271
   Flow in pipes, orifices, etc.
272
   Superheated steam. Superheaters, etc.
      Cf. TJ693 Locomotives
275
   Treatises, textbooks, etc.
277
   Pocketbooks, tables, etc.
279
   General special
      Including high pressure steam

Study and teaching

280
   General works
280.5
   Examinations, questions, etc.
280.7
   Geothermal engineering
      Cf. TH7416+ Geothermal heating
      Cf. TK1055 Production of electric power from geothermal energy
280.75.A-Z
   Special topics, A-Z
280.75.G46
   Geothermal wells
      Including drilling

Steam boilers
   Cf. TJ263.5 Boilers (General)
281
   Periodicals, societies, etc.
282
   Dictionaries and encyclopedias
283
   History
   General works
284
   Early works to 1850
285
   1850-
286
   Elementary textbooks
288
   General special
      Including boiler accessories
289
   Handbooks, management and care of boilers
      Including firemen's manuals, catechisms, etc.
      Cf. VM749 Manuals for marine boiler attendants

Construction (Boilermaking)

290
   General works
291
   Material of boilers, strength and testing
292
   Settings
293
   Supports
Steam boilers
  Construction (Boilermaking) -- Continued

294  Manholes
295  Models
296  Catalogs
  For special types see TJ310+
297  Testing. Heat transmission through boiler tubes
298  Safety measures. Inspection
Steam boiler explosions
  Cf. TH6565+ Kitchen boiler explosions
299  General works
301  Reports of special boiler explosions
  (302-308)
Law and legislation
  see class K

Types of boilers
310  Early types
  Including Cornish, Lancashire, etc.
Multitubular
311  General works
312  Vertical
  Locomotive boilers see TJ642
Water tube boilers
314  General works
315.A-Z  Special types, A-Z
316.A-Z  Combination and other forms, A-Z
318  Electrically heated steam boilers
319  Waste heat boilers
  Kitchen boilers see TH6563
  Marine boilers see VK588+

Boiler details and accessories
Furnaces
320  General works
  Grates
322  General works
324.A-Z  Special types, A-Z
324.5  Fuel systems
324.7  Combustion
325  Gas burning installations
326  Oil burning installations
328  Air preheating

Chimneys
  Cf. TH4591 Construction
330  General works
333  Draft
335  Forced draft. Mechanical draft
  Smoke prevention and consumers see TD884
340  Fuel economizers
345  Mechanical stokers. Automatic stokers
347  Grate shakers

Safety appliances
  Cf. TH6565+ Hot water supply
350  General works
  Safety valves
352  General works
354.A-Z  Special types, A-Z
356  Fusible plugs
Steam boilers
Boiler details and accessories
  Furnaces
    Safety appliances -- Continued
  Pressure regulators
357
358
  Blowoffs
Water gages
360
  General works
363
  Gage or try cocks
366
  Water glasses
Steam or pressure gages
370
  General works
372.A-Z
  Steam types, A-Z
Feed apparatus
375
  General works
377
  Water supply for boilers
378
  Wells, etc.
379
  Feedwater purification. Water softeners, etc.
  Feedwater heaters
381
  General works
383.A-Z
  Special types, A-Z
385
  Feed pumps
387
  Injectors
Boiler scale
  Including its prevention and removal
390
  General works
392
  Boiler compounds. Catalogs, circulars, etc.
393
Steam accumulators
395
Steam powerplants. Boiler plants
  Plants for power, heating, etc.
  Plants for power alone
400
  General works
403
  General special
405
  Operation and management
407
  Special plants. Description, plans, drawings, testing, etc.
Coal and ash handling see TJ1405
411
Directories of manufacturers and dealers in equipment and supplies
412
  Equipment and supplies
    Including catalogs
Pipe and fittings
  Including standardization
    Cf. TH7478 Steam heating fittings
415
  General works
(418)
  Catalogs
    see TJ412
421
  Pipe flanges
    Including standardization
424
  Expansion joints
427
  Steam pipe covering
Steam valves
430
  General works
432
  Catalogs
433
  Reducing valves
435
  Steam packing
438
  Steam traps
441
  Steam separators
Steam powerplants. Boiler plants
Pipe and fittings -- Continued

444  Oil separators
     Cf. TH7578.G7 Steam heating, grease separators

Steam engines

461  History
464  Early works to 1850
465  1850-
466  Textbooks
467  Popular works. Juvenile works
469  General special
     Including curiosa
471  Handbooks, etc., for engine tenders
472  Addresses, essays, lectures
473  Catalogs (General)
     For special types, see below
474  Standards. Specifications
475  Tests and efficiencies
478  Indicators
480  Models
483.5.A-Z  Other special topics, A-Z
483.5.T47  Thermodynamics

Steam engines. Special types (Reciprocating)
     For early types see TJ461+
485.A-Z  Types. By inventor or maker, A-Z
     e.g.
     Corliss
485.C5  Types. By use of steam
     Simple
490  General works
492  Single acting
494  Double acting
495.A-Z  Special makes, A-Z
     Compound
497  General works
499.A-Z  Special makes, A-Z
     Triple expansion
501  General works
503.A-Z  Special makes, A-Z
505  Quadruple expansion
507  Other types (not A-Z)

Steam engines (Design and construction)
515  General works
520  Balancing of engines
     Details
     Including description and parts
523  Foundations
525  Frame setting
     Cylinder
527  General works
529  Stuffing box. Packing
531  Steam jacket
533  Piston and piston rod. Piston rings
535  Crosshead and connecting rod
537  Crank and crankpin
539  Shaft and journals
Steam engines
Steam engines (Design and construction)
Details -- Continued

541 Flywheel
543 Eccentric and eccentric-rod
545 Slide valve
546 Piston valve
      Valve gears
547 General works
548.A-Z Special types, A-Z
      Governors
550 General works
551.A-Z Special types, A-Z
551.C8 Corliss valve gears

Steam engine accessories
555 General works
557 Condensers
559 Jet
561 Surface
563 Cooling towers
565 Wells
567 Exhausts

Locomotives
Cf. TF1+ Railroads
History
   Cf. TJ625.A+ Special locomotive works
603 General works
   Special countries
      United States
603.2 General works
603.3.A-Z Special railroad lines. By line, A-Z
      e.g.
603.3.S6 Southern Pacific Railroad
603.4.A-Z Other regions or countries, A-Z
      Under each:
      .x General works
      .x2A-.x2Z By special line, A-Z

Biography of locomotive engineers
For biography of inventors, designers, manufacturers, etc., of locomotives see TJ140.A+
603.49 Collective
603.5.A-Z Individual, A-Z
General works
   Including dictionaries
604 Early to 1850
605 1850-
605.5 Juvenile works
606 Manuals, pocketbooks, etc. for the locomotive builder
607 Handbooks, manuals, etc. for locomotive engineers and firemen
608 General special
   Including boiler accessories
Special types
609 General works
611 Simple
613 Compound
615 Other types. By use of steam
Electric locomotives see TF975
Locomotives
   Special types -- Continued
618
   Oil burning steam locomotives
   Diesel locomotives
619
   General works
   Special regions or countries
      United States
619.2
619.3.A-Z
   Special railroad lines. By line, A-Z
619.4.A-Z
   Other regions or countries, A-Z
       Under each:
       .x General works
       .x2A-.x2Z By special line, A-Z
619.5
619.7
   Electric equipment
      Electro-diesel locomotives see TF980
621
   Gasoline locomotives
622
   Gas turbine locomotives
623
   Nuclear locomotives
625.A-Z
   Special locomotive works and companies, A-Z
       Including reports, histories, catalogs and descriptions of their locomotives
          e.g.
625.B2
630
   Models and miniature engines
635
   Design and construction
   Repairs see TJ675
640
   Details (Various motive powers)
      Frames and running gear
642
   Boilers
      Including regulation and inspection
      Fireboxes
646
647
   Ashpans
648
   Fuel for locomotives. Coal, oil, etc.
       Cf. TJ690 Locomotive performance
649
   Mechanical stokers
650
   Draft appliances. Exhauists
653
   Smoke prevention
656
   Sparks and spark arresters
659
   Cylinders, pistons, etc.
662
   Connecting rods, etc.
665
   Valves and valve gears
   Other special
668
   Headlights
669.A-Z
   Other, A-Z
669.B4
   Bearings
669.B6
   Boosters
669.B7
   Brakes
669.C6
   Compressors
669.C7
   Cranks and crankshafts
669.E4
   Electric equipment
669.S6
   Speedometers
669.S7
   Storage batteries
669.W54
   Wheels
671
   Locomotive tenders
675
   Locomotive maintenance and repair. Lubrication
Locomotives -- Continued

Locomotive works and shops
680 General works
683 Shop practice

Supervision and inspection of locomotives
   Cf. TJ642 Boiler inspection

Documents
685.A1-.A5 United States
685.A6A-.A6Z Other countries, A-Z
685.A7-Z General works

Testing. Locomotive performance
   Cf. TF550+ Movement of trains
690

Superheated steam for locomotives
693

Locomotives for industrial purposes, logging, mining, etc.
   Cf. TN337 Electric mine locomotives
695

Other steam engines

Marine engines see VM731+
700 Traction engines, etc.
705 Steam wagons, trucks, etc.
   Cf. TL200+ Steam automobiles

Road rollers see TE223+
710 Portable engines
712 Farm engines
717 Reciprocating engines of unusual form
Steam engines of other forms not reciprocating
720 General works
725 Eolipiles
727 Aerosteam engines
729 Rotary engines
731 Cycloidal engines
Steam turbines
   Cf. VM740 Marine turbines
735 General works
737 General special
740 Special types, makes, etc. (not A-Z)

Miscellaneous motors and engines

Including internal combustion engines; air, gas, and oil engines, etc.
751 Periodicals, societies, etc.
752 Dictionaries and encyclopedias
753 History
755 General works
755.5 Juvenile works
756 Combustion. Thermodynamics
   Cf. TJ797 Diesel engines
758 Patents
759 General special
762.A-Z Parts and systems, A-Z
762.B4 Bearings
762.C73 Cranks and crankshafts
   Cf. TJ669.C7 Locomotives
   Cf. TL210+ Motor vehicles
762.C94 Cylinder blocks
762.E93 Exhaust systems
   Including exhaust manifolds
762.F84 Fuel systems
762.S95 Superchargers
Miscellaneous motors and engines -- Continued

763  Adiabatic engines
764  Barrel engines
765  Hot-air engines. Caloric engines
    Compressed air engines
766  General works
766.5  Air turbines
766.7  Air-cooled engines
768  Gas powerplants
    Gas engines
    General works
770  Explosion or ignition devices
773  Other details. Cylinders, pistons, etc.
775  Regulation devices
776  Special types
    Including catalogs
777.A-Z  Special applications, A-Z
777.F3  Farm engines
778  Gas turbines
    Cf. TJ812.6 Solar gas turbines
    Cf. VM740 Marine turbines
779  Free piston engines
779.15  Homogeneous charge compression ignition engines
779.2  Opposed piston engines
780  Engines for utilization of furnace and waste gases and heat
    Internal combustion engines, Spark ignition
    Cf. TJ621 Gasoline locomotives
    Cf. TL210+ Automobile motors
    Cf. TL701+ Airplane motors
    Cf. VM771+ Marine engines
782  Periodicals, societies, congresses, etc.
785  General works
    Carburetion, ignition, etc. Spark plugs. Magnetos
    Cf. TL213 Automobiles
787  General works
787.3.A-Z  Special topics, A-Z
787.3.C65  Cold start
787.3.M57  Misfire
788  Cylinders, pistons, and other parts
789  General special
    Including lubrication, cooling, etc.
    For automobile or airplane lubricants prefer TL153.5 and TL702.L8
    Special types
790  Small gasoline engines
    Including two-stroke and four-stroke engines
791  Stratified charge engines
792  Rotary combustion engines
    Including Wankel engine, Frasca engine
    Special applications
793  Agricultural machinery
793.2  Construction equipment
793.3  Hoisting machinery
Miscellaneous motors and engines -- Continued

Diesel engines
  Cf. TJ619.5 Diesel engines for locomotives
  Cf. TK1075 Diesel engine electric plants
  Cf. TL704.2 Diesel engines for aircraft
  Cf. VM770 Marine diesel engines

795.A1  Periodicals, societies, etc.
795.A2-Z  General works
795.5  Special types, makes, etc. (not A-Z)
797  Fuel systems. Fuel injection systems. Combustion
  Cf. TP343+ Diesel fuels
798  Lubrication
798.5  Cylinders, pistons and other parts
799  General special
  Including cooling, governors, exhaust systems, etc.
800  Alcohol motors
805  Engines or motors using other combustible liquids and vapors

Renewable energy sources
  Cf. GB1199.5+ Geothermal resources
  Cf. TC147 Water power
  Cf. TP360 Biomass energy

807  Periodicals. Societies. Serials
807.2  Congresses
807.4  Dictionaries and encyclopedias
807.6  Directories
807.8  Information services
807.9.A-Z  By region or country, A-Z
808  General works
808.2  Juvenile works
808.3  Handbooks, tables, etc.
808.5  Addresses, essays, lectures
808.6  Research
808.7.A-Z  By region or country, A-Z

Solar energy
  Class here general works on solar energy. For applications in special fields, see the field, e.g.
  TH7413 Solar heating of buildings
  Cf. HD9681 Solar energy industry
  Cf. NA2542.S6 Architecture and solar radiation
  Cf. QC910.2+ Solar radiation
  Cf. TH6561.7 Solar water heating
  Cf. TH7414 Solar houses
  Cf. TK1056 Production of electric power from solar energy

809  Periodicals. Societies. Serials
809.2  Congresses
809.4  Exhibitions. Museums
809.5.A-Z  By region or country, A-Z
  Subarrange each country by Table T4b
809.6  Dictionaries and encyclopedias
809.8  Directories
809.9  Information services
  By region or country
  United States
809.95  General works
809.96.A-Z  By region or state, A-Z
Renewable energy sources
Solar energy
By region or country -- Continued
809.97.A-Z Other regions or countries, A-Z
810 General works
810.3 Juvenile works
810.5 Handbooks, tables, etc.
810.7 Addresses, essays, lectures
810.9 Study and teaching
Research
811 General works
811.5.A-Z By region or country, A-Z
Special topics
811.8 Photosynthesis
Solar batteries. Solar cells see TK2960+
812 Solar collectors
812.5 Solar engines
812.6 Solar gas turbines
812.7 Solar materials
812.8 Solar ponds
Wind power
820 General works
Windmills
823 History
824 Early works to 1800
825 1800-
827 Trade catalogs
828 Wind turbines
Wind pumps see TJ926
830 Animal motors. Treadmills
Hydraulic machinery
Cf. TC1+ Hydraulic engineering
836 Periodicals. Societies. Serials
838 Congresses
839 Dictionaries and encyclopedias
General works
840.A2 Early to 1800
840.A3-Z 1800-
843 Oil hydraulics and oil hydraulic machinery
844 Hydraulic fluids
Hydraulic powerplants
Cf. TK1081+ Hydroelectric plants
Cf. TK1421+ Hydroelectric plants, by place
(845) General works
see TC147
847 Sluices, gates, etc.
849 Penstocks and pipelines
851 Wasteways, etc.
Fluidics and fluidic devices
853 General works
853.4.A-Z Special topics, A-Z
853.4.M53 Microfluidics and microfluidic devices
Including nanofluids
853.4.O68 Optofluidics
Hydraulic motors
855 General works
Hydraulic machinery

Hydraulic motors -- Continued

857
General special
Including regulators, etc.

859
Water mills

860
General works

862
Overshot

864
Undershot

866
Tangential (Pelton, etc.)
Turbines
Cf. TJ735+ Steam turbines

870
General works

873
General special

875
Special types

880
Hydraulic brakes

890
Water-pressure engines
Conveying of gases, liquids and solids by means of steam, air, or water

898
General works

898.5
Coal slurry pipelines
Cf. TJ1405 Coal-handling machinery

Pumps and pumping engines
Cf. TC929 Irrigation pumps

899
Periodicals, societies, etc.

899.5
Congresses

899.7
Dictionaries and encyclopedias

900
General works

901
General special
Including ancient and primitive pumps

902
Catalogs
Cf. TH6529 Water-supply fittings

902.5
Standards. Specifications

903
Hand pumps
Cf. TH9363 Fire pumps

905
Hydraulic rams
Steam pumps

906
General works

908
Catalogs, etc.

910
Electric pumping machinery

911
Jet pumps

912
Solar pumps

915
Piston pumps. Reciprocating pumps

916
Metering pumps

917
Rotary pumps

919
Centrifugal pumps (Kreiselpumpen)

921
Pulsometers, steam syphons, etc.

925
Pumping by compressed air. Airlift pumps

926
Wind pumps

927
Submersible pumps
Fire engines see TH9371+

Pipelines (General)
Cf. TA660.P55 Structural engineering
Cf. TC1800 Ocean engineering
Cf. TJ898.5 Coal slurry pipelines
Cf. TN879.5+ Petroleum pipelines
Cf. TN880.5 Natural gas pipelines
Pipelines (General) -- Continued

930  General works
930.5  Supports
933  Equipment and supplies
    Including catalogs
934  Double wall piping
935  Flow of fluids in pipes. Flowmeters
    Cf. TC174 Flow of water in pipes
Vacuum technology
940  General works
940.5  Vacuum pumps
Pneumatic machinery
950  General works
955  Air pumps
Blowers and fans. Exhausters
    Cf. TH7683.A+ Ventilation fixtures
960  General works
963  Piston blowers. Blast engines
966  Rotary blowers
969  Centrifugal blowers
Compressed air
981  Periodicals, societies, etc.
985  General works
990  Air compressors
992  Catalogs and trade publications
1000  Distribution and transmission
Pneumatic tools
1005  General works
1007  Catalogs
1009  Sandblast
    Cf. TP864 Glasswork
1015  Pneumatic tubes and carriers
Flow of gases in pipes. Air meters
1025  General works
1030  Air jets
Machinery exclusive of prime movers
    Including millwork, e.g., the shafting, gearing and other driving machinery of mills and factories
    For mills of specific places see TS21+
    Cf. TS191.3 Installation and maintenance of factory machinery
1040  General works
1045  Power and power transmission
1049  General special
1051  Power transmission machinery
    Including catalogs
1053  Measurement of power. Dynamometers
1053.5  Torquemeters
1054  Speed and revolution indicators
1055  Regulation and control of power. Governors
    For steam engine governors see TJ550+
1057  Shafting
Machinery exclusive of prime movers -- Continued

1057.4 Axles
   Cf. TF386 Rail car axles
   Cf. TF949.A9 Electric railway car axles
   Cf. TL683.A8 Airplane axles

1058 Rotors

1059 Universal joints

1060 Brakes
   Cf. TF415+ Railroad brakes
   Cf. TF949.B7 Electric railway brakes
   Cf. TJ669.B7 Locomotive brakes
   Cf. TJ880 Hydraulic brakes
   Cf. TJ1377 Elevator brakes
   Cf. TK4081 Electric brakes
   Cf. TL269+ Automobile brakes
   Cf. TL683.B7 Airplane brakes

1060.2 Shock absorbers
   Cf. TF393 Railroads
   Cf. TL257.5 Motor vehicles
   Cf. TL683.S4 Airplanes

Bearing
   Cf. TA660.B45 Structural engineering

1061 General and metallic bearings
   General works

1063 Plain bearings. Journal bearings

1065 Pillow blocks, hangers, brackets

1067 Pivot bearings

1069 Collar bearings

1071 Antifriction devices. Ball and roller bearings

Nonmetallic bearings
   Including special types of bearings

1072 General works

1073.A-Z Special materials, A-Z

1073.C45 Ceramic

1073.J4 Jewel

1073.P6 Plastic

1073.R8 Rubber

1073.W6 Wood

1073.5 Hydrodynamic and hydrostatic lubrication. Gas-lubricated bearings

1073.6 Oil mist lubrication

1073.7 Magnetic bearings

1074 Clutches. Friction clutches
   For automobile clutches see TL261

1075.A2 Periodicals, societies, etc.

1075.A3-Z General works

Lubricants
   Cf. TJ789 Lubrication of motors and engines
   Cf. TP669+ Oils, fats, etc.

1077 General works

1077.5.A-Z Special lubricants and methods, A-Z

1077.5.E43 Elastohydrodynamic lubrication

1077.5.N36 Nanostructured materials

1078 Solid lubricants

1079 Oil feeders, etc.

1081 Oil strainers, etc.
Machinery exclusive of prime movers -- Continued

1095
Traction drives
Belt gearing. Belt transmission

1100
General works

1103
Pulleys

1105
Belting

1107
Belt shifters, etc.

1115
Rope transmission

1117
Chain gearing

1119
Link belting

Toothed gearing see TJ184+

Machine shops and machine shop practice

Cf. TS200+ Metal manufactures. Metal forming

1127
General works

1130
Film catalogs

1133
Building and arrangement of machine shops

General works

1135
Plans for buildings and shops

Management of machine shops

Drafting-room practice see TJ227+

General works

Accounting and bookkeeping see HF5686.M2

1143
Production standards. Time and motion study

1146
Cost of production

1148
Estimating

Including estimates

1150
Storerooms, stockrooms, supplies

Machine shop practice

1160
General works

1165
Machinists' manuals. Shop kinks, shop mathematics, repairing, etc.

1166
Gages and gaging systems

1167
General special

Including errors in workmanship, accuracy of fitting, etc.

1170
Directories of dealers in machinery and supplies

1175
Catalogs of machinery (General)

Special companies (History, etc.) see TJ130.A+

1177
Safety appliances (General)

For safety appliances for special types of machinery, see the machinery, e.g. TS850

Woodworking

Machine tools and machining

Including design, manufacture, and use

Cf. TS215 Use of metal working machinery (General)

1180
Periodicals, societies, etc.

1183
Dictionaries and encyclopedias

1185
General works

1185.5
Automatic lines, indexing tables, transfer machines

1186
Cutting tools

Class here drill bits, milling cutters, reamers, broaches, etc., treated collectively

For cutting tools treated individually, see the special numbers, e.g. TJ1263 Drills; TJ1270

1187
Reamers

Jigs and fixtures

1187.4
Spindles

1188
Machine tool drives

For electric drives, see TK4059.M32
Machine shops and machine shop practice
Machine tools and machining -- Continued

1189  Numerical control of machine tools
For numerical control of special types of machinery, see the machinery, e.g. TJ1225 Milling machines

1190  Catalogs

1191  Special types of machining
Including electric spark, ultrasonic, etc.

1191.5  Micromachining
Materials used in machine and hand tools

1192  General works
Special materials

1193  Diamonds and other precious stones

1194  Plastics. Other materials (not A-Z)

Handtools

Cf. TH5618 Carpentry tools
Cf. TL1098 Space tools
Cf. TT186 Woodworking tools

1195  General works

1200  Catalogs

1201.A-Z  Special handtools, A-Z

1201.A9  Axes
Files see TJ1285

1201.H3  Hammers

1201.N8  Nut runners and setters

1201.P55  Planes
Pliers see TJ1201.T64
Saws see TJ1235

1201.S3  Scrapers

1201.S34  Screwdrivers
Shears see TJ1240

1201.S68  Squares

1201.T64  Tongs. Pliers

1201.V5  Vises

1201.W44  Wedges

1201.W8  Wrenches

Special tools

Planing machines

1205  General works

1206  Planers

1208  Shapers. Routing tools
Cf. TT203.5 Woodworking

1210  Slotting and grooving machines

Turning machines. Screw machines
Cf. TT207 Metal turning

1215  General works

Lathes

1218  General works

1219  Chucks

1220  Boring attachments

1222  Screw-cutting machines
Milling machines
For gear cutting machinery see TJ187

1225  General works

1227  Milling cutters
Machine shops and machine shop practice
  Machine tools and machining
  Special tools -- Continued
    Cutting and sawing machinery
      Cf. TK4660.5 Electric cutting machinery
  1230
  General works
  Saws
    For sawmill machinery see TS850
  1233
  General works
  1235
  Saw filing
    Cf. TJ1285 Files and filing
  1237
  Saw sets
  1240
  Shears
  Perforating machinery
  1250
  General works
  Punching machinery
    Cf. TS253 Punch and die work; press tool work
  1255
  General works
  1257
  Multiple punches
  Drilling machinery
  1260
  General works
  Drills
    Including making and tempering
  1263
  General works
  1265
  Catalogs
  1270
  Reamers
  Abrading machinery. Grinding, lapping, etc. Sharpening
    Cf. TS654.5 Electrolytic polishing
  1280
  General works
  1285
  Files and filing
    Cf. TJ1235 Saw filing
  1287
  Catalogs
  1290
  Emery wheels
  1293
  Grindstones
  1296
  Abrasives and polishes
  1298
  General works
  1300
  Carborundum. Silicon carbide
  1305
  Bending machines
    Including straightening and shaping
    Hammers. Steam hammers. Power hammers, etc.
  1310
  General works
  1313
  Riveting machines
  1315
  Measuring tools, rules, calipers, etc.
  1317
  Bench work and fitting
  1317.5
  Assembling machines
  1317
  General works
  1317.5
  Orienting mechanisms
  Fasteners
    Cf. TA492.A+ Special forms in metal
  1320
  General works
  1325
  Rivets
  1327
  Retaining rings
  1328
  Pins
  1329
  Keys and keyways. Splines
  1330
  Bolts and nuts
  General works
Machine shops and machine shop practice
Fasteners
Bolts and nuts -- Continued
1333
Bolt cutters
1335
Taps and dies
1338
Screws and screw threads
1340
General works
1345
Standards
Screw-cutting machines see TJ1222
Crushing and milling machinery
Cf. TE239 Stonecrushers for road material
Cf. TJ1225+ Milling machines
Cf. TJ1280+ Abrading machinery
Cf. TN496+ Ore-dressing, etc.
Cf. TP937.5 Paint machinery
Cf. TS2120+ Flour mills, etc.
Hoisting and conveying machinery
Cf. TS180.3 Materials handling machinery
1350.A1
Periodicals, societies, etc.
1350.A2-Z
General works
1353
Catalogs
1355
Excavators
Cf. TA735+ Excavating machinery (Operation and use)
Hoisting machinery
Cf. TJ793.3 Internal combustion engines for hoisting machinery
1357
Blocks and falls
1359
Chain blocks
1360
Vacuum lifters
1361
Shear legs, etc.
1362
Winches
Cranes and derricks
1363
General works
1365
Travelling cranes
1366
Lifting magnets
1367
Details of construction
Including girders and beams
Elevators
1370
General works
1372
Specifications
1374
Electric elevators
1375
Hydraulic elevators
1376
Escalators
1377
Brakes and safety devices
1380
Elevator service in buildings
1382
Dumbwaiters
1383
Hoists
For ashes, etc.
Conveying machinery
Cableways. Telpherage. Wire rope transportation
1385
General works
1386
Aerial tramways
Cf. TN332 Mining
1387
Electric telpher systems
Conveyors, belts, etc., for assembly line production. Endless carriers
1390
General works
1395
Catalogs
Hoisting and conveying machinery
  Conveying machinery -- Continued
  1398 Conveyors, chutes, etc., for letters, parcels, cash, etc.
  1400 Passenger conveyors
  1405 Coal-handling machinery
    Cf. TF294 Locomotive coaling plants
    Cf. TH4471 Coal-handling plants
    Cf. TJ898.5 Coal slurry pipelines
    Cf. TN815 Mining
  1410 Ash-handling machinery
  Grain-handling machinery
    Cf. TH4461 Grain elevators
  1415 General works
  1417 Special systems, companies, etc.
  1418 Dumping devices

Lifting and pressing machinery
  1425 General works
  1428 Inclined planes
  Lifting jacks
    General works
  1430 Screwjack
  1433 Hydraulic jack

  Presses
    General works
  1450 Catalogs
  1452 Screw press
  1460 Hydraulic presses
  1465 Pneumatic presses
    Filter presses
  1470 General works
  1475 Catalogs

Agricultural machinery. Farm machinery
  Cf. S671+ Utilization of agricultural machines
  Cf. S675.5 Maintenance and repair
  Cf. S677 Catalogs
  1480.A1 Periodicals, societies, etc.
  1480.A2-Z General works
  1482 Soil working machines: plows, harrows, cultivators, etc.
  1483 Seeders, planters, etc.
  1484 Machines for caring for plants
  1485 Harvesters, reapers, etc.
  1486 Threshing machines. Combines
  1486.5 Lumbering machinery
  1487 Other
    Farm gas engines see TJ777.F3
    Farm steam engines see TJ712
    Gasoline tractors see TL233+
    Pumps and pumping engines see TJ899+
    Trucks see TL230+
  1495.A-Z By region or country, A-Z
  1496.A-Z By company, A-Z

Sewing machines
  Cf. TT713 Sewing machine work
  1501 Periodicals, societies, etc.
  Exhibitions
  1503.A1 General works
Sewing machines
Exhibitions -- Continued
1503.A2-Z
   By region or country, A-Z
      Subarrange each country by Table T4b
1504
   Dictionaries and encyclopedias
1505
   Directories
1507
   History
1510
   General works
1512
   Patents
1513
   General special
1515
   Manuals of instruction for users
1519
   Trade catalogs

Other special machinery
1530
   Goffering machines
1535
   Winding machines
1540
   Screening machinery
(1545)
   Packaging machinery
      see TS196.4
1550
   Wrapping machines
1555
   Sorting devices
      Coin operated machines
1557
   General works
1560
   Vending machines
1570
   Amusement machines
Electrical engineering. Electronics. Nuclear engineering

For electricity in general see QC501+
For works combining mechanical and electrical engineering see TJ163+
For production of electric energy see TK1001+
For dynamoelectric machinery and auxiliaries see TK2000+
For distribution or transmission of electric power see TK3001+

Periodicals and societies

- Arrange by language of publication
  - 1.A1 International or polyglot
  - 1.A3-Z English
  - 2 French
  - 3 German
  - 4 Other languages (not A-Z)
  - 5 Congresses

Exhibitions. Museums

- For telegraphic exhibitions see TK5107.5.A1+

- 6.A1 General works
- 6.A2-Z By region or country, A-Z
  - Subarrange each country by Table T4b

- 7 Collected works (nonserial)

- 9 Dictionaries and encyclopedias
  - Cf. QC505 Electrical dictionaries

- 11 Electrotechnical readers

- 12 Directories of electrical industries
  - For central station directories see TK1194

(13) Yearbooks
  - see TK1+

History

- 15 General works
- 16 Early to 1830
- 17 Nineteenth century, 1830-1880
- 18 1880-

- 21-127 Country divisions (Table T1a)
  - Add country number in table to TK0
  - Including general reports of government bureaus

Biography

- 139 Collective
- 140.A-Z Individual, A-Z

General works

- 143 Before 1830
- 144 1830-1870
- 145 1870-

Elementary textbooks

- 146 Laboratory manuals, outlines, syllabi, etc.
  - For standardizing see TK275+
  - For testing see TK401

- 148 Juvenile works. Popular works
  - For amateur's handbooks see TK9900+

- 151 Pocketbooks, tables, etc.

- 152 Safety measures (General)

- 153 General special
  - Including electromechanical transducers

- 155 Addresses, essays, lectures

- 159 Electrical engineering as a profession
  - For electrical engineering (Biography) see TK139+

Study and teaching
Study and teaching -- Continued

165  General works
168  Problems, exercises, etc.
169  Examinations, questions, etc.

America
171  General works
173  General works
174.A.-W  States, A-W
175.A-Z  Cities, A-Z

Canada
176  General works
177.A-Z  Special provinces, A-Z
178.A-Z  Special cities, A-Z
179  Latin America
180  Mexico
182  Central America
183.A-Z  General works
185  General works
186.A-Z  Special islands, A-Z
188  South America
189.A-Z  General works

Europe
191  General works
192.A-Z  Special countries, A-Z

Asia
194  General works
195.A-Z  Special countries, A-Z

Africa
197  General works
199.A-Z  Special countries, A-Z

Australia
201  General works
203  New Zealand

204  General works
205.A-Z  Special islands, A-Z

Special schools
United States
211.A-Z  Correspondence schools, A-Z
213.A-Z  Other countries. By school, A-Z

(215-255)

Laws and legislation relating to applications of electricity
see class K

257  Patents
260  Insurance requirements
   Cf. TK3275 Wiring
Electric standards and measurements
   Class here works of a practical nature
   For standards of special machinery or material, see the subject, e.g. TK2311 Dynamoelectric machinery; TK3307 Wire and cable
   For works on the theory, experimental aspects and study of electrical measurements see QC535+
   For testing of electric machinery see TK401
   Cf. TK425 Specifications

275
   General works

277
   General special

Electric meters
301
   General treatises
   General catalogs
308
   Manufacturers' catalogs
309
   Supply companies' catalogs

Meters for special measurements
311
   Resistance meters and measurements
      Including galvanometers, ohmmeters, resistance boxes, Wheatstone's bridge, shunts
315
   Impedance meters and measurements
321
   Potential and voltage meters and measurements
      Including voltmeters, voltage detectors
325
   Voltohmeters
      For combined works on voltohmeters and vacuum tube voltmeters see TK7879.2
331
   Intensity and current meters and measurements
      Including ammeters, coulometers, ampere-hour meters, voltameters
335
   Capacitance meters and measurements
341
   Quantity meters and measurements
      Including wattmeters
351
   Energy and power meters and measurements
      Including watt-hour meters, power factor meters
381
   Other meters and measurements
      Including frequency meters and measurements, oscillographs, phase meters, synchronizers
393
   Recording meters (General). Process recorders
      For special types see TK311+
396
   Prepayment meters
399
   Telemeter systems

401
   Testing of electric machinery and appliances (General)
      For the testing of special machinery or appliances, see the special subject, e.g. TK2316 Machinery testing
      Cf. TK147 Laboratory manuals
      Cf. TK275+ Electric measurement

Electrical engineering and testing laboratories
411
   General works
415.A-Z
   Special laboratories, A-Z
425
   Specifications (General)
      For specifications for special machinery, etc., see the special subject, e.g. TK2321 Dynamoelectric machinery

431
   Drawings
435
   Estimates

Management and superintendence of electrical enterprises
   Cf. TK1811 Management of electric power plant central stations

441
   General works
445
   Business getting, Soliciting
   Interconnection of power systems
447
   General works
448
   Automation
General electrical manufacturing and engineering companies
   For economic aspects see HD9685.A1+
451.A2  Collective

Electric apparatus and materials
452  General works
453  Materials (General)
Electric circuits
   Cf. TK3226 Electric-power circuits
454  General works
454.15.A-Z Special circuits, A-Z
454.15.A48 Alternating current
454.15.D57 Direct current
454.15.E65 Equivalent
454.15.P37 Parallel
454.15.S47 Series
454.2  Electric networks
   Cf. TK3226 Electric-power networks
454.4.A-Z Special, A-Z
454.4.C6 Copper
454.4.E5 Electromagnets
454.4.E9 Explosionproof apparatus
   Insulation and insulating materials see TK3401+
454.4.L3 Laminated metals
454.4.M3 Magnetic materials
454.4.M33 Magnetic shielding
   Meters see TK301+
   Microelectromechanical systems see TK7875
454.4.P5 Phosphors
454.4.P55 Plastics
   Cf. TK3441.P55 Plastics (Insulation)
454.4.P7 Protective coatings
454.4.S7 Steel
454.4.S93 Superconductors
   Cf. TK7872.S8 Superconductors (Electronics)
454.4.T3 Talc
455  Catalogs of electric machinery and supplies
Theory
   (500)
   Theory (General)
   see TK143+
   Theory of dynamoelectric machinery see TK2211
   Theory of direct-current machinery see TK2615
   Theory of alternating-current machinery see TK2715
   Theory of the line see TK3226
Special
531  Current and voltage waveforms
541  Resonance in electrical engineering
Production of electric energy or power
   For powerplants see TK1191+
   For dynamoelectric machinery (General) see TK2000+
   For distribution of electric power see TK3001+
1001  General works
1005  General special
1006  Distributed generation
   Including small-scale power generation, metropolitan plants
1007  Electric power systems control
Production of electric energy or power -- Continued

1010 Electric power system stability
   Including quality control and reliability
1020 Emergency power supply
1025 Security measures
1030 State estimation
Production from heat. Cogeneration of electric power and heat
   Cf. TK2950+ Thermoelectricity (Applied)
1041 General works
1051 Production from steam (Coal)
1055 Production from geothermal energy
1056 Production from solar thermal energy
1061 Production from gas
1071 Production from other fuels
1073 Ocean thermal energy conversion
1075 Diesel engine electric plants
1076 Gas turbine power plants
1078 Production from atomic power
Production from waterpower. Hydroelectric power production
   For special countries and plants see TK1421+
1081 General works
1083 Pumped storage power plants
Production from windpower see TK1541
Direct production from chemical action see TK2901+
Production from solar energy
1085 General works
1087 Photovoltaic power generation. Photovoltaic power systems
   Including building-integrated photovoltaic systems
   Cf. TK2960+ Solar batteries. Solar cells
   Cf. TK8322 Photovoltaic cells
Production from solar thermal energy see TK1056
Production classified by character of the electric current
   For distribution of electric energy (classified by character of the electric current) see TK3101+
General works see TK1001+
Direct-current engineering
   Cf. TK2611+ Direct-current dynamolectric machinery
1111 General works
1121 Edison three-wire system
Alternating-current engineering
   Cf. TK2711+ Alternating-current machinery
1141 General works
1145 Single-phase currents
1151 Two-phase currents
Polyphase currents
   Cf. TK2745+ Polyphase-current machinery
1161 General works
1165 Three-phase currents
1168 Multiphase currents
Production of electric energy or power -- Continued

Electric power plants (General)
   Including light and powerplants
   For special types see TK1001+
   For dynamoelectric machinery and auxiliaries see TK2000+
   For central stations wiring see TK3281
   For electric lighting stations see TK4201+
   For telegraph power production see TK5371
   For telephone power production see TK6271+
   Cf. TH4581+ Construction of powerplants

1191
   General works

1193
   Special regions or countries, A-Z

1194
   Directories
      Cf. TK12 Directories of electrical industries

Special

1221-1327
   Power plants utilizing heat energy (Table T1a)
      Add country number in table to TK1200
      Cf. TK1041+ Production of electric energy from heat

   Power plants utilizing nuclear power
      Cf. TK1078 Production of electric energy from nuclear power

America
   1341
      General works
      United States

1343
   General works

1344.A-.W
   States, A-W

1345.A-Z
   Cities, A-Z

Canada
   1346
      General works

1347.A-Z
   Special provinces, A-Z

1348.A-Z
   Special cities, A-Z

1349
   Latin America

1350
   Mexico

1352
   General works

1353.A-Z
   Special countries, A-Z

   West Indies

1355
   General works

1356.A-Z
   Special islands, A-Z

   South America

1358
   General works

1359.A-Z
   Special countries, A-Z

Europe
   1361
      General works

1362.A-Z
      Special countries, A-Z

Asia
   1364
      General works

1365.A-Z
      Special countries, A-Z

Africa
   1367
      General works

1369.A-Z
      Special countries, A-Z

Australia
   1371
      General works

1372.A-Z
      Special states, A-Z

1373
   New Zealand

   Pacific islands

1374
   General works
Production of electric energy or power
- Electric power plants (General)
  - Special
    - Power plants utilizing nuclear power
      - Pacific islands -- Continued
      - Special islands, A-Z
    - Power plants utilizing waterpower (Table T1a)
      - Add country number in table to TK1400
      - Cf. TK1081+ Production of electric energy from waterpower
    - Power plants utilizing wind
    - Power plants utilizing both heat and waterpower see TK1221+
    - Power plants utilizing solar energy
      - Cf. TK1056 Production of electric power from solar thermal energy
    - Power plants utilizing other power
  - Substations
  - Central station management
    - For machine operators' manuals see TK2184
    - For electric lighting (Central station management) see TK4238
  - Central station testing
    - Cf. TK2316 Testing of dynamoelectric machinery
  - Electric power rates
    - Cf. HD9685.A1+ Economic aspects
    - Cf. TK21+ Special places

Dynamoelectric machinery and auxiliaries
- Including motive power, machinery and auxiliaries
- For production of electric energy see TK1001+
- For powerplants see TK1191+
- For auxiliaries (General) see TK2811+

General works
- Dynamoelectric machinery
  - Including both direct and alternating-current generators, motors, etc.
- Special motive power and driving apparatus for dynamoelectric machinery
  - General works
    - Treatises
    - Elementary textbooks
    - Operators' manuals
      - Amateurs' handbooks of generator and motor construction see TK9911
  - General special
    - Theory
      - For theory of direct-current machinery see TK2615
      - For theory of alternating-current machinery see TK2715
    - Eddy currents in electrical engineering
    - Commutation and brush resistance
      - Cf. TK2481 Commutation
  - Standards
  - Monitoring
  - Testing
    - For central station testing see TK1831
    - For generators and motors see TK2433
    - For direct-current machinery see TK2623
    - For alternating-current machinery see TK2723
  - Specifications
  - Machine drawing for electrical engineers
Dynamoelectric machinery and auxiliaries

Dynamoelectric machinery -- Continued

2331
Design and construction
For generators and motors see TK2435
For direct-current machinery see TK2625
For alternating-current machinery see TK2725

2341
Types of dynamoelectric machinery
For generators see TK2441+
For motors see TK2537
For direct-current machinery see TK2631
For alternating-current machinery see TK2731

2391
General special
Including automata, coils, etc.

Generators (General) (D.C. and A.C.). Dynamos
Including works treating of both generators and motors
For direct-current generators see TK2661+
For alternating-current generators see TK2761+
For machinery for electric lighting see TK4241
For amateurs' handbooks of generator construction see TK9911

2411
General works

2433
Testing of generators and motors

2435
Design and construction of generators and motors
For design of details see TK2451+
For design of direct-current generators see TK2625
For design of alternating-current generators see TK2761+

Types of generators
For direct-current generators see TK2665
For alternating-current generators see TK2765

2441
General works

2448
Variable speed generators
Details

2451
General works
Special

2456
Mechanical details
General works

2458.A-Z
Special, A-Z

2458.B4
Bearing

2458.F68
Foundation

2458.S5
Shafting

2461
Magnetic details
General works

2464
Special
Field yoke

2465
Field poles

2466
Field shoes

2471
Electrical details
General works
Special

2474
Winding
General works

2475
Field winding and spools

2477
Armature winding and armatures

2481
Commutators and collectors
For commutation see TK2281

2484
Brush holders and brushes

2487
Shunts. Leads
Dynamoelectric machinery and auxiliaries

Dynamoelectric machinery
Generators (General) (D.C. and A.C.). Dynamos
Details
Special
Electrical details
Special -- Continued

2488
Terminals

2491
General special
Motors (General) (D.C. and A.C.)
For works treating of generators and motors together see TK2411+
For direct-current motors see TK2681
For alternating-current motors see TK2781+
For use of electric motors see TK4055+

2511
Treatises
2514
Elementary textbooks
(2535)
Amateurs' handbooks
see TK9911

2537
Types
For railway motors see TF935
2541
Details
For details in common with generators see TK2451+

2551
Transforming machinery (D.C. and A.C.)
For direct-current transforming machinery see TK2691+
For alternating-current transforming machinery see TK2791+
For amateurs' handbooks of transformer construction see TK9915

Direct-current machinery
For direct-current engineering see TK1111+

General works
2611
Treatises
2612
Textbooks
2615
Theory
Including short-circuited currents in armatures

2623
Testing of D.C. machinery
2625
Design and construction
2631
Types
Details see TK2451+

2644
General special
Special direct-current machinery

2661
Direct-current generators
General works
Design see TK2625
2665
Types
Including constant-potential generators, low voltage generators, constant-current
generators, commutation pole generators
Details see TK2451+

2681
Direct-current motors
Direct-current transforming machinery

2691
General works
Special
2692
Inverters
2693
Dynamotors
2695
Motor generators
2697
Boosters
2699
Other direct-current machinery
Dynamoelectric machinery and auxiliaries
Dynamoelectric machinery -- Continued
Alternating-current machinery
   Cf. TK1141+ Alternating-current engineering
General works
   2711 Treatises
   2712 Textbooks
Technique of alternating-current machinery
   Including "hunting" fields, parallel driving
   2723 Testing of alternating-current machinery
Design and construction
Types of alternating-current machinery
   Including synchronous, polyphase, etc.
Details see TK2451+
General special
Special classes of alternating-current machinery
Polyphase-current machinery
   For polyphase currents see TK1161+
Alternating-current generators
   2761 General works
   2765 Types
Alternating-current motors
   2781 General works
   2785 Types
      Induction, asynchronous and polyphase motors. Squirrel-cage motors
      Starting compensators see TK2851
Synchronous motors
Alternating-current transforming machinery
D.C. to A.C. transforming machinery
   2791 General works
      A.C. transformers. Autotransformers or compensators. "Current" transformers
   2792 General works
   2794 Types
A.C. to D.C. transforming machinery
   2795 General works
   2796 Converters. Rotaries
Motor-generator sets (A.C. synchronous or induction motors)
   Including cascade converters (i.e. induction motor-dynamo; secondary winding of motor and armature of generator in cascade)
   2798 Other A.C. to D.C. transformers. Aluminum cells
      Cf. TK7871.7+ Electron tubes
   2799 Other alternating-current machinery
      Including frequency converters
Condensers
Apparatus auxiliary to dynamoelectric machinery
   2811 General works
Switchboards and accessories
   Including switchboard meters, switches, rheostats
   For switchboards for electric power for telephones see TK6271+
   For switchboards for telephone line connections see TK6391+
   2821 General works
   2822 Direct current
      Alternating current
   2825 General works
Dynamoelectric machinery and auxiliaries
  Apparatus auxiliary to dynamoelectric machinery
    Switchboards and accessories
      Direct current -- Continued
      2826  Low tension A.C.
      2828  High tension A.C.
      2831  Switches
        Circuit breakers and fuses
        2841  General works
        2842  Circuit breakers
        2846  Fuses and "Cutouts"
          For fuses (General) see TK3511
        2851  Rheostats. Regulators. Controllers. Starters
          For controllers or starters for electric cars see TF930
        2861  Relays
        2891  Accumulators in central stations
  Devices for production of electricity by direct energy conversion
    Cf. TL783.54+ Rocket engine propulsion
      2896  General works
      2897  Energy harvesters
        Including microharvesters
      2901  Production of electricity directly from chemical action
        General works
      2910  Materials (General)
        For works on individual energy storage materials, see the material in TK2945.A+ e.g.,
          TK2945,L58 Lithium
        Special apparatus
          For amateurs' manuals see TK9917
      2921  Primary cells
        For special types see TK2945.A+
        Fuel cells
      2931  General works
      2933.A-Z  Special devices, A-Z
      2933.D57  Direct methanol fuel cells
      2933.M53  Microbial fuel cells
      2933.M65  Molten carbonate fuel cells
      2933.P76  Proton exchange membrane fuel cells
      2933.S65  Solid oxide fuel cells
      2941  Storage batteries. Rechargeable batteries. Secondary cells
        For accumulators in central stations see TK2891
        For special types see TK2945.A+
      2942  Solid state batteries
      2943  Battery chargers
      2945.A-Z  Other special batteries or energy storage materials, A-Z
      2945,C37  Carbon
      2945.C47  Ceramics
      2945.E44  Electrodes
      2945.F54  Flexible batteries
      2945.F56  Flow batteries
        Fuel cells see TK2931+
      2945.L42  Lead-acid
      2945.L58  Lithium
        Nanostructured materials see TK2945.N36
      2945,N52  Nickel-cadmium
      2945.N53  Nickel-hydrogen
Devices for production of electricity by direct energy conversion
Production of electricity directly from chemical action

Special apparatus
Other special batteries or energy storage materials, A-Z -- Continued

2945.P65 Polymers
2945.P68 Potassium-ion
2945.S62 Sodium ion
2945.S63 Sodium-sulfur
Solid state batteries see TK2942
Thermal batteries see TK2953

2945.Z55 Zinc

Thermoelectricity (Applied)

2950 General works
Special apparatus
2953 Thermal batteries
2955 Thermionic converters

Solar batteries. Solar cells
Cf. TJ812.5 Solar engines
Cf. TK1056 Production of electric power form solar thermal energy
Cf. TK1087 Photovoltaic power generation. Photovoltaic power systems
Cf. TK8322 Photovoltaic cells
Cf. TK9918 Amateur construction
Cf. TL1100+ Electric equipment on space vehicles

2960 General works
2963.A-Z Special types of solar batteries or solar cells, A-Z
2963.D94 Dye-sensitized solar cells
2963.G35 Gallium arsenide solar cells
2963.H93 Hybrid solar cells
2963.P47 Perovskite solar cells
2963.S55 Silicon solar cells

2965 Atomic batteries. Isotopic power generators

2970 Magnetohydrodynamic generators
Cf. TL783.6 Plasma rockets
Cf. TL1102.G4 Generators

2975 Electrohydrodynamic generators

Electric energy storage
Cf. TK1081+ Pumped storage power plants
Cf. TK2805 Condensers
Cf. TK2891 Storage batteries

2980 General works
2985 Magnetic energy storage
2986 Pulsed power systems

Distribution or transmission of electric power
Including the electric-power circuit
Cf. TK1001+ Production of electric energy

3001 General works
3070 Automatic control
For smart power grids see TK3105

3081 Testing of distribution systems
For the line and component parts see TK3207

3084 Earthquake effects
3085 Lightning protection
3088 Wireless power transmission
3091 General special
Distribution or transmission of electric power -- Continued

Systems
  For overhead and underground systems see TK3221+
  For electric lighting (Systems) see TK4303+
  
3101 General works. Tapping of line for various uses
3105 Smart power grids
  For specific types of smart grids see the type, e.g., Microgrids see TK3106
3106 Microgrids
3107 Transformation of electricity (General)
  For transforming machinery see TK2551
3111 Direct-current systems
  Cf. TK1111+ Direct-current engineering
  
Alternating-current systems
  Cf. TK1141+ Alternating-current engineering
3141 General works
3142 Low tension A.C. systems (to 500 volts)
3143 Medium tension A.C. systems (500-10,000 volts)
3144 High tension A.C. systems (above 10,000 volts)
3148 Flexible AC transmission systems
3151 Single-phase current systems
3153 Two-phase current systems
3155 Polyphase current systems
  General works
3156 Three-phase current systems
3158 Multiphase current systems
3159 Polycyclic systems
  Class here combinations of single and two-phase currents transmitted over single line and
  used as single and two-phase current at point of application
3171 Composite systems (A.C. and D.C.)
  
Wiring
  Including central station, line and user's plant
  For special wiring, see the subject, e.g. TK4255, Electric lighting; TK5441, Telegraph; TK6341
  Telephone
  For the line (General) see TK3221+
3201 General works
3205 Pocketbooks, tables, diagrams, etc.
  For tables of properties and dimensions of wire see TK3305
3207 Testing of line and component parts
  For distribution system testing see TK3081
  For wire see TK3307
3211 General special
  The line
3221 General works
3226 Technique of the line. Electric-power circuits and networks
  Including induction capacity, transients, etc., of parallel lines, heat losses of overhead lines
  and underground lines
  Cf. TK454+ Electric circuits (Apparatus)
  Cf. TK454.2 Electric networks (Apparatus)
  Cf. TK7872.T74 Electronic circuits
3227 Grounding
  Aerial or overhead lines and component parts
  For telegraph overhead lines see TK5452+
  For telephone overhead lines see TK6352
3231 General works
3239 Catalogs
  Details
Distribution or transmission of electric power

Wiring
The line
Aerial or overhead lines and component parts
Details -- Continued

3242 Poles, crossarms and towers
3243 Pole supports
3246 Line insulators. Testing of insulators
   Cf. TK3431 Testing of insulating material
3248 Lightning arresters (General)
Underground lines and component parts
For telegraph underground lines see TK5465+
For telephone underground lines see TK6365

3251 General works
3255 General special
   Including electrolysis due to underground systems
   Cf. TF912 Stray currents from electric traction
3258 Specifications
3261 Details
   Including conduits, manholes
   For cables see TK3351

Interior or indoor wiring

3271 General works
3275 Insurance underwriters' requirements
3278 Specifications
3281 Central station wiring
3283 Factory wiring
3284 Commercial building wiring
3285 House wiring

Conductors. Wires. Cables
   For telegraph wire and cable see TK5481
   For telephone wire and cable see TK6381+

3301 General works
3303 Juvenile works
3305 Tables of properties and dimensions of wire
   Cf. TK3205 Pocketbooks of wiring
3307 Standards and testing of wire and cable
   For testing of the line (General) see TK3207

3311.A-Z Conductors, A-Z
3311.A6 Aluminum
3311.C6 Copper
3311.G3 Gases
3311.P6 Polymers
3321 Bare wires
   Insulated wires
3331 General works
3335 Testing
   Cf. TK3431 Insulating material
3351 Cables
   For submarine cables see TK5661+
   Insulation and insulating material
3401 General works
   Insulating material
3421 General works
Distribution or transmission of electric power
Insulation and insulating material
Insulating material -- Continued

3431
Testing
   For insulators see TK3246
   For insulated wire and cables see TK3335

3441.A-Z
Special insulating materials, A-Z
3441.C35
   Cellulose
3441.C38
   Ceramics
3441.E6
   Epoxy resins
3441.F55
   Fluorine organic compounds
3441.G3
   Gases
3441.G5
   Glass
3441.L5
   Liquids
3441.M4
   Metallic oxides
3441.O5
   Oil
3441.P25
   Paper
3441.P55
   Plastics
3441.P58
   Polymers
3441.S46
   Silicon nitride
3441.S47
   Silicon organic compounds
3441.S48
   Siloxanes
3441.S5
   Slate
3441.S8
   Sulfur hexafluoride
3441.V3
   Varnish

Other details
3511
   Fuses (General)
      For fuses for switchboards see TK2846
3521
   Connectors

Applications of electric power
4001
   General works
   Electric railways see TF854.2+
4015
   General special
   Special applications
4018
   Agriculture and the farm
      Cf. HD9688 Rural electrification
4025
   School building equipment
4035.A-Z
   Other special, A-Z
4035.A35
   Air conditioning
      Airplanes see TL690+
4035.A6
   Apartment houses
4035.B83
   Building materials industry
4035.C25
   Cement industries
4035.C35
   Chemical laboratories
4035.C37
   Chemical plants
4035.C4
   Clothing factories
4035.C47
   Clubhouses
4035.C6
   Coke industry
   Commercial buildings see TK4035.M37
4035.F3
   Factories (General)
4035.F6
   Flour mills
4035.F67
   Food industry
4035.H3
   Harbors
   Health facilities and hospitals see RA969.48
   Heating (Building construction) see TH7409+
   Heating (Electrical engineering) see TK4601+
Applications of electric power
  Special applications
    Other special, A-Z -- Continued
  4035.H6
    Hoisting machinery
  4035.H9
    Hydraulic structures
  4035.K58
    Knit goods industry
  4035.L4
    Leather industry
  4035.M37
    Mercantile buildings. Commercial buildings
  4035.M4
    Metallurgical plants
  4035.M6
    Motion picture theaters
  4035.N6
    Nonferrous metal industries
  4035.O7
    Ore-dressing plants
  4035.P3
    Paper industry
  4035.P33
    Peat industry
  4035.P35
    Petroleum engineering
  4035.P53
    Photographic equipment
  4035.P55
    Pipelines
  4035.R3
    Railroad repair shops
  4035.R4
    Refrigeration and refrigerating machinery
  4035.R46
    Restaurants
  4035.R6
    Rolling mills
  4035.R82
    Rubber industry
  4035.S4
    Service industries
  4035.S5
    Shipyards
  4035.S7
    Steelworks
  4035.S9
    Sugar factories
  4035.T4
    Textile factories

Mechanical applications of electric power
  4050
    General works
  4055
    Use of electric motors
  4057
    General special
      Including motor repairers' manuals
      Cf. TK3205 Wiring manuals, etc.

Electric driving
  4058
    General works
  4059.A-Z
    Special, A-Z
  4059.C64
    Compressors
  4059.C65
    Construction equipment
  4059.C67
    Conveying machinery
  4059.D4
    Deck machinery
  4059.D73
    Dredges
  4059.E9
    Excavating machinery
  4059.F35
    Fans
  4059.H64
    Hoisting machinery
  4059.K55
    Knitting machines
  4059.M32
    Machine tools
  4059.M55
    Mining machinery
  4059.P74
    Printing presses, machinery, etc.
  4059.P85
    Pumping machinery
  4059.R64
    Rolling mill machinery
  4059.S55
    Sluice gates
  4059.T48
    Textile machinery
  4059.T87
    Turbomachines
  4059.W56
    Winding machines
  4081
    Electric brakes
Applications of electric power
   Mechanical applications of electric power
   Use of electric motors -- Continued
   Electric calculating machines
      Class here also works that discuss both electric calculating machines and computers
      For works on computers only see TK7885+
      Cf. HF5679 Machine methods in accounting
      Cf. QA71+ Calculating machines (Mathematics)

4090  General works
   Special machines
      Accounting machines
4100  General works
   e.g.
4101.I5  International Business Machines Corporation
4102  Billing machines

Electric lighting
   Cf. TH7700+ Domestic illumination
4125  Periodicals, societies, etc.
4129  Dictionaries and encyclopedias
4131  History
   Special countries
      Including annual reports of electric lighting departments
      Cf. HD4486+ Municipal industries
      Cf. TK4220+ Special plants

America
4134  General works
   United States
4135  General works
4136.A-W  States, A-W
   Canada
4138  General works
4139.A-Z  Special provinces, A-Z
4140  Mexico
   Central America
4141  General works
4142.A-Z  Special countries, A-Z
   West Indies
4143  General works
4144.A-Z  Special islands, A-Z
   South America
4145  General works
4146.A-Z  Special countries, A-Z
   Europe
4147  General works
4148.A-Z  Special countries, A-Z
   Asia
4149  General works
4150.A-Z  Special countries, A-Z
   Africa
4151  General works
4152.A-Z  Special countries, A-Z
   Australia
4153  General works
4154.A-Z  Special states, A-Z
Electric lighting
  Special countries -- Continued

4154.5
  New Zealand
  Pacific islands

4155
  General works

4156.A-Z
  Special islands, A-Z
  General works

4160
  Early to 1870

4161
  1870-

4162
  Elementary textbooks

4164
  Electricians' manuals

4166
  Pocketbooks, tables, etc.
  Wiring for electric lighting see TK4255
  Amateurs' handbooks see TK9921

4169
  General special

4175
  Technique. Theory of electric lighting
  Including candlepower, light distribution

4181
  Specifications
  For incandescent lighting see TK4348

4186
  Management of electric lighting enterprises
  For management of electric lighting plants see TK4238

4188
  Special aspects of electric lighting
  Including city or metropolitan lighting, rural lighting, indirect lighting, lighting of roads
  Lighting machinery and supplies
  Including catalogs
  Cf. TK455 Electric machinery and supplies

4195
  General works

4198
  Fixtures
  For gas and electric fixtures combined see TH7960+

Central stations for lighting

4201
  General works

4218
  General special

4219
  Special lighting plants
  General works
  Special lighting plants utilizing heat energy
  United States

4220
  Canada

4223.A-Z
  Other American countries, A-Z

4224
  Other (Asia, Africa, Australia, and Oceania)
  Special lighting plants utilizing waterpower
  United States

4225
  Canada

4226
  Other American countries, A-Z

4229
  Other (Asia, Africa, Australia, and Oceania)
  Special lighting plants utilizing both heat and waterpower
  United States

4230
  Canada

4233.A-Z
  Other American countries, A-Z

4234
  Other (Asia, Africa, Australia, and Oceania)

4237
  Substations

4238
  Management of electric lighting plants
  Cf. TK4186 Electric lighting enterprises

4241
  Machinery for electric lighting
  For operators' manuals see TK2184
  For electric generators see TK2411+
  Distribution in electric lighting
Electric lighting
  Distribution in electric lighting -- Continued
  4251  General works
  4255  Wiring for electric lighting. Installation
    For insurance underwriters’ requirements see TK3275
    For pocketbooks and tables for electric lighting see TK4166

Systems of electric lighting
  General and miscellaneous, see TK4160+
  4303  Direct-current systems
  4304  Alternating-current systems
  4308  Composite systems (D.C. and A.C.)
  4310  Electric lamps (General)
    Arc lighting
    4311  General works
    4319  General special
    4321  Arc lamps and systems
    4322  General works
    4329.A-Z  Types. Open and enclosed arcs
      Prefer TK4329
    4331  General works
    4335  Carbons
      For manufacture of carbons see TK7725

Incandescent lighting
  4341  General works. Handbooks. Pocketbooks
  4348  Specifications
    General special
      Including safety measures
  4351  Incandescent lamps and special systems
    General works
    4352  Types. Carbon and metal filament lamps
    4359.A-Z  Special lamps and systems. By name, A-Z
    4359.H34  Halogen lamps
    4359.N47  Nernst lamps and systems
    4359.T9  Tungsten lamps
      Details. Wall plugs, sockets, etc.
    4361  General works
    4365  Filaments
    4367  Tests of efficiency of incandescent lamps

Electric discharge lighting
  Cf. TK4311+ Arc lighting
  4371  General works
  4381  Vapor lamps and systems
      Including mercury vapor lamps
    4382  Glow lamps
    4383  Neon lamps and tubes
    4386  Fluorescent lamps and systems
    4388  LED lamps and systems
  4391  Other lamps and systems (not A-Z)
  4395  Private electric-light plants for country houses, etc.
  4399.A-Z  Special uses of electric lighting, A-Z
    4399.A9  Auditoriums
    4399.B8  Building sites
    4399.C6  Coal preparation plants
      Cf. TN309 Electric lighting of mines
Electric lighting
Special uses of electric lighting, A-Z -- Continued
- Dwellings see TK4255
- Emergency lighting
- Factories, Workshops
- Farm buildings
- Floodlighting
- Hotels
- Interior decoration, Lighting as an element in see NK2115.5.L5
- Iron and steel works
- Mills
- Office buildings
- Pedestrian areas
- Physical education facilities
- Power plants
- Public buildings
- Recreation areas
- Searchlights
- Ships see VM493
- Show windows
- Signs
  - Cf. TK4383 Neon lamps and tubes
- Sports facilities
- Stores, Retail
- Streets see TK4188
- Theaters
  - Cf. PN2091.E4 Electric devices for the stage, and stage lighting
  - Cf. TR891 Lighting for motion pictures

(4500) Infrared technology
- see TA1570

Electric heating
- For rheostats and controllers see TK2851

4601 General works
4635 Infrared heating
- Special applications of electric heating
  - Electric space heating see TH7409+
  - Electric cooking stoves see TX657.S5
  - Electric cooking see TX827
  - Thawing of water pipes see TH6685
4660 Electric welding
4660.5 Electric cutting
4661 Electric furnaces
  - Cf. QD157 Inorganic chemistry
  - Cf. QD277 Organic chemistry
  - Cf. TN687 Electric metallurgy
  - Cf. TP841+ Ceramic industries

Electric ignition devices for gas lighting in buildings see TH6885+
Electric ignition devices for automobiles see TL213

Telecommunication
- Class here general works only. For works on special systems, see the subject
  - Cf. QA268 Coding theory

5101.A1 Periodicals, societies, congresses, etc.
5101.A3-Z General works
5101.5.A1 General works
TK  ELECTRICAL ENGINEERING. ELECTRONICS. NUCLEAR ENGINEERING  TK

Telecommunication

Exhibitions -- Continued

5101.5.A2-Z  By region or country, A-Z
  Subarrange each country by Table T4b

5102  Dictionaries and encyclopedias

5102.2  History

5102.3.A-Z  By region or country, A-Z

5102.4  Juvenile works

5102.5  General special
    Biography

5102.54  Collective

5102.56.A-Z  Individual, A-Z

5102.6  Telecommunication as a profession
    Study and teaching. Research

5102.7  General works

5102.8.A-Z  By region or country, A-Z

5102.83  Mathematical models. Computer simulation

5102.84  Quality control

5102.85  Security measures

5102.86  Sustainable practices. Energy conservation

5102.9  Signal processing
    Coding theory
    For application in special field, see the field

5102.92  General works

5102.93  Combined source channel coding

5102.94  Cryptographic techniques

5102.96  Error correction
    Including turbo codes

5102.98  Echo suppression

5102.985  Traffic
    For works on traffic in specific systems, see the system, e.g., Computer network management
    see TK5105.548+

Apparatus and supplies

5103  General works

5103.12  Wiring

5103.15  Telecommunication lines

5103.17  Power supply
    Modems see TK7887.8.M63

Wireless communication systems. Mobile communication systems

5103.2  General works

5103.25  5G mobile communication systems

5103.252  6G mobile communication systems

5103.256  Backscatter communication

5103.26  Bit-interleaved coded modulation

5103.3  Bluetooth

5103.35  Body area networks
    Cf. TK5105.7+ Local area networks
    Broadband communication systems

5103.4  General works
    Asynchronous transfer mode see TK5105.35

5103.45  Spread spectrum communications

5103.4515  Ultra-wideband communication systems

5103.452  CDMA

5103.48  CDPD (Standard)

5103.4815  Cognitive radio networks
Telecommunication

Wireless communication systems. Mobile communication systems -- Continued

5103.4817 Frequency division multiple access
  Including single-carrier frequency division multiple access
5103.482 General Packet Radio Service
5103.483 Global system for mobile communications
5103.48323 Indoor positioning systems
5103.48324 Integrated sensing and communications systems
5103.48325 Long-Term Evolution
5103.4833 Microwave communication systems
5103.4835 Millimeter wave communication systems
5103.4836 MIMO systems
(5103.4837) Mobile device forensics
  see HV8079.C65
5103.484 Orthogonal frequency division multiplexing
5103.485 Personal communication service systems
5103.486 TDMA
5103.487 Broadcast data systems
5103.4873 Radio resource management
5103.4874 Roaming
5103.4875 Software radio
  Radio data systems see TK6570.R27
  Teletext systems see TK6679.7
5103.4877 Space time codes
5103.488 Trunked radio. TETRA
5103.4883 Universal Mobile Telecommunications System
5103.4885 Wireless Internet
  Wireless LANs see TK5105.78
5103.4895 Wireless localization
5103.5 Information display systems
5103.52 Acoustical telecommunication systems
  Including underwater acoustic telemetry
5103.57 Magnetic communication see TK5103.58
5103.58 Molecular communication
5103.59 Near-field communication. Magnetic communication
  Optical communications
5103.59 General works
5103.592.A-Z Special topics, A-Z
5103.592.F52 Fiber optics. Optical fiber communication
5103.592.F73 Free space optics
  Optical fiber communication see TK5103.592.F52
5103.592.O68 Optical fiber subscriber loops
5103.592.P38 Passive optical networks
5103.592.Q83 Quantum communications
5103.592.W38 Wavelength division multiplexing
5103.6 Laser communications systems
  Cf. TA1671+ Lasers
5103.7 Digital communications
  General works
  Synchronous data transmission systems see TK5105.4+
5103.75 Integrated services digital networks
5103.78 Digital subscriber lines
5103.8 Switching systems
  Packet switching see TK5105.3+
  Artificial satellites in telecommunication
  Cf. HE9719+ Economics
Telecommunication

Artificial satellites in telecommunication -- Continued

5104 General works
5104.2.A-Z Special systems and projects, A-Z
5104.2.A38 Advanced Communications Technology Satellite
5104.2.A72 ‘Arabsāt
5104.2.A75 ASTRA
5104.2.D5 Dioscures project
5104.2.E29 ECS satellites
5104.2.H46 Hermes
5104.2.I25 INSAT
5104.2.O49 Olympus
5104.2.P33 PACSAT
5104.2.P35 Palapa project
5104.2.R4 Relay
5104.2.S5 Skynet Project
5104.2.T4 Telstar
5104.2.V74 VSATs

Data transmission systems

5105 General works
Wireless communication systems see TK5103.2+
5105.15 Multimedia communications
5105.2 Picture transmission systems. Image transmission
  Cf. TK5103.75 Integrated services digital networks
  Cf. TK6505 Video telephone
  Cf. TK6600 Phototelegraphy
  Cf. TK6710+ Facsimile transmission

Packet switching

5105.3 General works
5105.35 Asynchronous transfer mode
5105.38 Frame relay
5105.383 Packet transport networks
5105.386 Streaming technology

Synchronous transfer systems

5105.4 General works
5105.415 SONET
5105.42 Synchronous digital hierarchy
5105.45 TMN

Computer networks
For application in special field, see the field

5105.5 General works
5105.514 Popular works. Juvenile works
5105.52 Computer network architectures
5105.525 Peer-to-peer architecture

Apparatus and supplies

5105.53 General works
5105.543 Bridges. Routers. Gateways
5105.5457 Network processors
5105.546 Networks on a chip

Computer network management

5105.548 General works
5105.5485 Monitoring
5105.5487 Routing
5105.54873.A-Z Special topics, A-Z
Telecommunication
  Computer networks
    Computer network management
      Routing
        Special topics, A-Z -- Continued

5105.54873.A33  Adaptive routing
5105.54873.D56  Dimension-ordered routing
5105.54873.H54  Hierarchical routing
5105.54873.H68  Hot potato routing
      Routers see TK5105.543
5105.54873.S45  Self-routing
5105.54873.W67  Wormhole routing

Computer network protocols. Standards
  General works
5105.55  General works
5105.553  ASN.1
5105.555  BGP
5105.56  CEBus
5105.565  CGI
5105.5658  Data Plane Development Kit
5105.5663  Diameter
5105.5665  File Transfer Protocol
5105.5667  HTTP
5105.5668  IEEE 802.11
5105.567  IPSec
5105.5675  IS-IS
5105.5677  iSCSI
5105.568  JXTA
5105.572  L2TP
5105.5725  LDAP
5105.573  MPLS
5105.574  Network File System
5105.575  Network Time Protocol
5105.577  Open Document Architecture
5105.578  Open Shortest Path First
5105.58  Open Systems Interconnect
5105.582  PPP
5105.5825  RADIUS
5105.5828  Service-oriented architecture
5105.583  Simple Network Management Protocol (SNMP)
5105.5833  Software-defined networking (SDN)
5105.5835  Stream Control Transmission Protocol
5105.585  TCP/IP
5105.586  TINA
5105.5863  WebDAV
5105.5864  WHOIS
5105.5865  Wireless application protocol (WAP)
5105.587  X.500
5105.59  Computer network security
5105.595  Directory services
5105.5956  Quality of service. Reliability
      Including network performance

5105.597  Remote access
5105.6  Telematics
5105.65  Location-based services
5105.66  Cross-layer designs
5105.67  Machine-to-machine communications
Telecommunication

Computer networks -- Continued

Local area networks

5105.7 General works
5105.72 Ring networks
5105.72 Electronic mail systems

Including systems that also connect outside the local network and instant messaging systems
Cf. HE7551+ Postal service

5105.73 General works
5105.74.A-Z Special programs, A-Z
5105.74.C57 Cisco IronPort
5105.74.E57 Entourage
5105.74.G55 Gmail
5105.74.J32 Jabber
5105.74.P66 Postfix
5105.74.P76 Procmail
5105.74.Q43 Qmail
5105.74.S44 Sendmail
5105.743 Spam filtering
5105.75 Home computer networks

Including amateurs' manuals

5105.76 Personal area networks
5105.77 Ad hoc networks
5105.775 FiWi access networks
5105.78 Wireless LANs
5105.8.A-Z Special systems, A-Z
5105.8.A77 AppleTalk

Banyan VINES see TK5105.8.V56
5105.8.B57 BLEND
5105.8.C57 Cisco
5105.8.E25 Econet
5105.8.E83 Ethernet
5105.8.I24 IBM Token-Ring Network
5105.8.I44 ILLINET
5105.8.J84 Juniper
5105.8.L34 LAN Server
5105.8.N63 Nortel
5105.8.N65 Novell Netware networks
5105.8.S65 SNA
5105.8.T65 TOPS
5105.8.V56 VINES
5105.83 Electronic villages
5105.84 Value-added networks
5105.85 Metropolitan area networks
5105.86 Storage area networks
5105.87 Wide area networks

5105.87 General works
5105.875.A-Z Special networks and systems, A-Z
5105.875.A77 ARPANET
5105.875.B57 BITNET
5105.875.C45 CGNET
5105.875.D37 DDN
5105.875.E87 Extranets
5105.875.F55 Florida Information Resource Network
5105.875.I57 Internet
5105.875.I6 Intranets
Telecommunication
  Computer networks
    Wide area networks
      Special networks and systems, A-Z -- Continued
      5105.875.N37 National Research and Education Network
      5105.875.S58 Sistema Nacional e-México
      5105.875.S95 SURAnet
      5105.875.S97 Switched multi-megabit data service
      5105.875.U83 Usenet
  Specific aspects of, or services on, the Internet
    General works see TK5105.875.I57
    5105.878 Moral and ethical aspects
      Browsers
      5105.882 General works
      5105.883.A-Z Special, A-Z
      (5105.883.C66) Communicator (Netscape)
        see TK5105.883.N49
      5105.883.F55 Firefox
      5105.883.G66 Google Chrome
      5105.883.M53 Microsoft Internet Explorer
      5105.883.N43 NetCruiser
      5105.883.N49 Netscape Communicator
      5105.883.N493 Netscape SuiteSpot
      5105.883.O65 Opera
      (5105.883.S85) SuiteSpot (Netscape)
        see TK5105.883.N493
      5105.8835 Domain names
        Search engines
        Class here works on the engineering and technology of search engines
        For works on using search engines, browsers, and other user interfaces to retrieve information see ZA4230+
      5105.884 General works
      5105.885.A-Z Special, A-Z
      5105.885.A45 AltaVista
      5105.885.G66 Google
      5105.885.N68 Novell E-guide
      5105.885.O37 OASIS
      5105.885.O53 OMEGA
      5105.885.R34 RaiNews24
      5105.885.W42 WebCompass
      5105.885.Y34 Yahoo!
        Electronic mail systems see TK5105.73+
    Internet games see GV1469.3+
  Internet Relay Chat
  5105.8854 Internet governance
  5105.8855 Internet access. Internet access control
  5105.8857 Internet of things
  5105.886 Internet Relay Chat
  5105.8863 Computer sound processing
  5105.8864 Metaverse
  5105.88645 Telepresence
  5105.8865 Internet telephony
    Internet videos
      Cf. PN1992.922+ Production and direction
  5105.8867 General works
Telecommunication
   Computer networks
      Wide area networks
         Specific aspects of, or services on, the Internet
         Internet videos -- Continued
5105.8868.A-Z
5105.8868.Y68
5105.887
Webcasting. Push technology
   Cf. PN1992.922+ Production and direction
World Wide Web
   Including general works on web site design and development
5105.888
General works
5105.88813
Web services
5105.88815
Semantic Web
5105.88817
Web 2.0
5105.8882
Wikis
   Web authoring software
      Including Web server software
         For HTML see QA76.76.H94
         For specific programs see TK5105.8885.A+
5105.8883
General works
5105.8884
Weblog software
5105.8885.A-Z
5105.8885.A26
Active server pages
5105.8885.A28
ActiveX
5105.8885.A34
Adobe GoLive
5105.8885.A35
Adobe InDesign
5105.8885.A355
Adobe Muse
5105.8885.A36
Adobe PageMill
5105.8885.A38
Adobe Photoshop
5105.8885.A52
Ajax
5105.8885.A63
Apache
5105.8885.B4
BEA Weblogic
5105.8885.B66
Bootstrap
5105.8885.C55
Claris Home page
5105.8885.C58
Community server
(5105.8885.C66)
Composer (Netscape)
      see TK5105.8885.N49
5105.8885.D54
Django
5105.8885.D68
DotNetNuke
5105.8885.D74
Dreamweaver
5105.8885.D78
Drupal
5105.8885.F55
Fireworks
5105.8885.F59
Flash
(5105.8885.F76)
FrontPage (Microsoft)
      see TK5105.8885.M53
5105.8885.F87
FutureTense Texture
5105.8885.G64
GoLive CyberStudio
5105.8885.H65
HomeSite
5105.8885.J34
Jakarta Tomcat
5105.8885.J38
JavaServer pages
5105.8885.J42
JBoss
5105.8885.J86
Joomla
(5105.8885.L58)
LiveConnect (Netscape)
      see TK5105.8885.N5
5105.8885.L67
Lotus Domino
Telecommunication
  Computer networks
    Wide area networks
    Specific aspects of, or services on, the Internet
    World Wide Web
      Web authoring software
        Special, A-Z -- Continued

5105.8885.M32  Macromedia Generator
5105.8885.M37  Macromedia sitespring
5105.8885.M38  Macromedia Studio MX
5105.8885.M39  Markdown
                Including R Markdown

5105.8885.M52  Microsoft content management server
5105.8885.M25  Microsoft Expression Web
5105.8885.M53  Microsoft FrontPage
5105.8885.M54  Microsoft Office. Microsoft Office professional
5105.8885.M543 Microsoft SharePoint
5105.8885.M545 Microsoft TV
5105.8885.M55  Microsoft Visual InterDev
5105.8885.M57  Microsoft Visual studio
5105.8885.M59  Microsoft Word
5105.8885.M67  Movable Type
5105.8885.N34  Namo wep edit’ö
5105.8885.N48  NetObjects Fusion
5105.8885.N49  Netscape Composer
5105.8885.N5  Netscape LiveConnect
5105.8885.N54  NGINX
5105.8885.N62  Novell Net publisher
5105.8885.O63  Opa
5105.8885.Q7  Oracle Portal
5105.8885.O75  Oracle WebLogic server
(5105.8885.P34)
                PageMill
                see TK5105.8885.A36
                R Markdown see TK5105.8885.M39
5105.8885.R46  Resin
5105.8885.R83  Ruby on Rails
5105.8885.S24  SAP NetWeaver
5105.8885.S25  SAS
5105.8885.S56  Shockwave
5105.8885.S76  Struts framework
5105.8885.S94  Svelte
(5105.8885.T49)
                FutureTense Texture
                see TK5105.8885.F87
5105.8885.T54  TK toolkit
5105.8885.T85  Tumblr
(5105.8885.V58)  Visual InterDev (Microsoft)
                see TK5105.8885.M55
5105.8885.W36  Water
5105.8885.W42  Web component
                WebLogic server (Oracle) see TK5105.8885.O75
5105.8885.W43  WebSphere
5105.8885.W65  WordPerfect
5105.8885.W66  WordPress
5105.8885.Z65  Zope
5105.8887  WebTV (Trademark)
5105.9  Communications software
Telegraph
   Including works on the telegraph and telephone
   Cf. TK5601+ Submarine telegraph
   Cf. TK5700+ Radiotelegraph
   Cf. TK9941+ Construction for amateurs
   Cf. UG600+ Military telegraph
5107
   Periodicals, societies, etc.
   Exhibitions
5107.5.A1
   General works
5107.5.A2-Z
   By region or country, A-Z
   Subarrange each country by Table T4b
5108
   Collected works (nonserial)
5110
   Dictionaries and encyclopedias
   History
5115
   General works
   Claims of inventors
5117
5118.A-Z
   Special. By name, A-Z
5118.B2
   Claims of Bain
5118.C7
   Claims of Cooke
5118.H5
   Claims of Henry
5118.M7
   Claims of Morse
5121-5227
   Country divisions (Table T1a)
   Add country number in table to TK5100
   For technical reports of telegraph companies see TK5287.A+
   Biography
5241
   Collective
5243.A-Z
   Individual, A-Z
   Study and teaching
5250
   General works
   Special schools
5255
   United States
5257.A-Z
   Other countries, A-Z
5261
   Comprehensive treatises
5262
   Elementary textbooks
5263
   Telegraphers' manuals
5264
   Beginners' primers
5265
   Popular works
   Cf. TK9941+ Construction for amateurs
5266
   Pocketbooks, tables, etc.
5269
   General special
5275
   Theory of telegraphy
5281
   Specifications (General)
   Management of telegraph enterprises
   Cf. HE7661 Business administration of telegraph companies
   Cf. TK5381 Management of telegraph stations
5283
   General works
   Office organization
5285
   General works
5286
   Records. Correspondence
5287.A-Z
   Technical reports of telegraph companies. By company, A-Z
   For financial and other non-technical reports see HE7761+
5295
   Catalogs of telegraph apparatus and supplies (General)
   Telegraph plants. Stations. The line
5301
   General works
   Stations
Telegraph

Telegraph plants. Stations. The line

Stations -- Continued

5311
General works
Central telegraph stations

5321
General works

5328 A-Z
Special. By country, A-Z

5341
Branch stations

5371
Power production and special machinery

5378
Electric cells

5381
Management of telegraph stations (Technical)
   For telegraphers' manuals see TK5263
   Cf. TK5283+ Management of telegraph enterprises

5385
Testing of telegraph apparatus, lines and material
   Cf. TK5445 Inspectors' manuals

Distribution. Construction. Connections
Including works on telegraph and telephone lines

5401
General works
Wiring of telegraph circuits
   Cf. TK6341+ Wiring of telephone circuits

5441
General works

5445
Telegraph wiremen's manuals. Inspectors' manuals. Diagrams of connections, etc.
   Cf. TK5266 Pocketbooks and tables for telegraph engineers

The line
   Cf. TK6351+ Telephone lines

5451
General works
Overhead lines

5452
General works
Line material (General)

5455
Details
   Including poles and crossarms, guys and braces
   Underground lines
   General works

5465
General works
Conduit material (General)

5468
Details
   Cables see TK5481

5481
Telegraph wires and cables
   For submarine cables see TK5671

5491
Switchboards and accessories (for line connections)
   For switchboards for electric power in telegraph see TK5371

Systems and instruments for telegraphing
   For systems and instruments for making connections see TK5491

5501
General works

5509
General special. Telegraph alphabets

(5511)
   Early to 1830
   Claims of inventors, see TK5117+

5515
Optic systems. Dial telegraphs. Non-automatic electrolytic telegraphs

Acoustic systems and instruments

5521
General works

5522
General special. Buzzer systems

5523
Simplex. Ordinary. High speed

5531
Duplex (two messages simultaneously, in opposite directions)

5535
Quadruplex or synchronous (four messages simultaneously, in two directions)

5538
Multiplex (more than four messages simultaneously)

5541
Automatic transmitting and receiving systems and instruments

5541
General works
Telegraph

Systems and instruments for telegraphing

Automatic transmitting and receiving systems and instruments -- Continued

Printing

Class here letters or characters printed directly

Writing. Autographic

Ink impression or inking receiving systems and instruments

Perforating transmitting systems and instruments. Perforated paper-fillet in transmitter and ink impression in receiver. Synchronographs

Chemical (Electrochemical. Photochemical)

Cf. TK6600 Picture telegraph

Induction systems

Telegraph systems. By application, A-Z

Train telegraph systems

Cf. TK5550 Induction systems

Instruments (General)

Class special instruments with the system above

General works

Keys

Sounders and relays

General works

Relays

Submarine telegraph

Periodicals, societies, etc.

History

General works

By region or country, A-Z

Geographical subdivisions

General works

Atlantic submarine telegraph

Including life and works of C.W. Field

Pacific submarine telegraph

Indian Ocean submarine telegraph

Comprehensive treatises

Elementary textbooks

Popular works

Pocketbooks, tables, etc.

General special

Stations. Construction. Component parts, etc.

Cables and cable laying

General works

Cable laying and repairing

General works

The cable

Cf. TK5481 Telegraph cables (General)

Systems and instruments

Radiotelegraph. Wireless telegraph

Cf. HE8660+ Economics

Cf. HJ6645+ Coast Guard service (U.S.)

Cf. TK6540+ Wireless telephone

Cf. UG610+ Military wireless telegraph

Cf. VG76+ Naval wireless telegraph

Periodicals, societies, etc.

Collected works (nonserial)

Dictionaries and encyclopedias

Directories of wireless stations see HE8663+
Telegraph
Radiotelegraph. Wireless telegraph -- Continued

5711
History
Special countries
United States

5718
General works
5719.A-.W
States, A-W

5720
Canada

5721
Latin America

5721.5
West Indies
South America

5722.A1
General works
5722.A2-Z
By region or country, A-Z

Europe

5723.A1
General works
5723.A2-Z
By region or country, A-Z

Asia

5724.A1
General works
5724.A2-Z
By region or country, A-Z

Africa

5725.A1
General works
5725.A2-Z
By region or country, A-Z

5726
Australia
5726.5
New Zealand
5727
Pacific Islands
5728
Arctic regions

Biography

5733
Collective
5739.A-Z
Individual, A-Z

Study and teaching. Schools

5740
General works
5740.5
Laboratory manuals
5741
Comprehensive treatises
5742
Elementary textbooks
5743
Operators’ manuals
5745
Popular works

For amateurs’ manuals for construction see TK9946

5746
Pocketbooks, tables, etc.
5747
General special
5751
Theory
5755
Patents
5771
Stations for radiotelegraph
Special applications

5773
General works. Position finding, etc.
(5775)
Aeronautical
see TL693+

5777
General special
Systems and instruments for radiotelegraph
For general works, see TK5741+

5811
Special systems
Instruments

5861
General works
5863
Coherers
5865
Other special

Electroacoustics. Electroacoustic transducers

5981
General works

236
Electroacoustics. Electroacoustic transducers -- Continued

5981.5  
Active noise and vibration control

5981.55  
Acoustic surface wave devices

5982  
Ultrasonic transducers

5983  
Loudspeakers

5983.5  
Headphones

5984  
Magnetic tape and magnetic tape heads
  
  For data tapes see TK7895.D3

5986  
Microphones
  
  Cf. TK6478 Telephone transmitters

5987  
Hydrophones
  
  Recorders and recording (Magnetic) see TK7881.6+
  
  Sound systems (General) see TK7881.4+

5990  
Sirens

Telephone
  
  For telecommunications devices for the deaf see HV2502.5
  
  For systems and standards used in wireless communication, including wireless telephone systems
  
  see TK5103.2+
  
  For Internet telephony see TK5105.8865
  
  For telephone plants see TK6201+
  
  For telephone systems and instruments see TK6401+
  
  For mobile communication systems see TK6570.M6
  
  For military telephone systems see UG620.A+

6001  
Periodicals, societies, etc.

6005  
Congresses. Conventions

Exhibitions. Museums

6005.5.A1  
General works

6005.5.A2-Z  
By region or country, A-Z
  
  Subarrange each country by Table T4b

6006  
Collected works (nonserial)

6007  
Dictionaries and encyclopedias

6011  
Directories of the telephone industry

History

6015  
General works

6017  
Claims of inventors

6018.A-Z  
Special. By name, A-Z
  
  e.g.

6018.B4  
Claims of Bell

6018.P6  
Claims of Pickering

6018.S8  
Claims of Strong

6021-6127  
Special countries (Table T1a)
  
  Add country number in table to TK6000
  
  For technical reports of telephone companies see TK6187.A+

Biography

6141  
Collective

6143.A-Z  
Individual, A-Z

Study and teaching

6150  
General works

6155  
Special schools

6157.A-Z  
Other countries, A-Z

6161  
Comprehensive treatises

6162  
Elementary textbooks

6163  
Operators' manuals
  
  Cf. TK6345 Telephone wiremen's manuals
Telephone -- Continued

6164 Beginners' primers
6165 Popular works. Juvenile works
    Cf. TK9951 Amateurs' manuals for construction
6167 Pocketbooks, tables, etc.
6168 Examinations, questions, etc.
6169 General special
    Including rural telephones, estimates
6175 Theory of the telephone
6181 Specifications (General)
    Management of telephone enterprises
    Cf. HE8761+ Business administration of telephone companies
    Cf. TK6281 Management of telephone stations
6183 General works
    Office organization
6185 General works
6186 Records, correspondence, etc.
    For financial and other non-technical reports see HE8800+
6188 General special
6195 Catalogs of telephone apparatus and supplies (General)
    Telephone plants. Stations. The line
6201 General works
    Stations. Central telephone stations. Exchanges
6211 General works
6241 Substations
    Power production and special machinery
    For central stations (General) see TK1191+
6271 General works
6278 Batteries
6281 Management of telephone stations
    Cf. TK6183+ Management of telephone enterprises
6285 Testing of telephone apparatus, line and material
    Distribution. Construction. Connections
6301 General works
    Wiring of telephone circuits
6341 General works
6343 General special
    Including phantom circuits
6345 Telephone wiremen's manuals. Inspectors' manuals
    Cf. TK3205 Wiring manuals for electricians
    Cf. TK5445 Telegraph wiremen's manuals
    Cf. TK6163 Telephone operators' manuals
    The line
    Cf. TK5103.78 Digital subscriber lines
    Cf. TK5451+ Telegraph (The line)
6351 General works
6352 Overhead or aerial lines
    For telegraph overhead lines see TK5452+
6365 Underground lines
    Submarine telephone cables
    History
6370 General works
6372.A-Z By region or country, A-Z
    Geographical subdivisions
6373 Atlantic Ocean

Atlantic Ocean
Telephone
Distribution. Construction. Connections
The line
Submarine telephone cables
Geographical subdivisions -- Continued
6375
Treatises
6377
Popular works. Juvenile works
Telephone wires and cables
6379
For telegraph wires and cables see TK5481
6381
General works
6383
Wiretapping
Switchboards and accessories for line connections
For switchboards for electric power for telephones see TK6271+
6391
General works
6392
General special
Systems for making connections
6394
Manual systems
6397
Automatic systems
Systems and instruments for transmitting sound
For systems and instruments for making electric connections see TK6391+
6401
General works
6418
Catalogs of instruments
Cf. TK6195 Catalogs of apparatus and supplies
Special systems and instruments
Cf. TK6394+ Systems for making connections
6421
General works
6425
Multiplex systems
6430
Centrex systems and services
Instruments
6471
General works
6473
Technique of telephone instruments
Transmitters
6475
General works
6478
Microphones
6481
 Receivers
6500
Telegraphones. Telephonographs. Recording telephones. Dictographs. Mechanical telephones
6505
Video telephones
6525
Simultaneous telegraph and telephone
Radio
Including wireless telephone
Cf. QC660.5+ Electric waves
6540
Periodicals, societies, etc.
6541
Congresses
(6542)
Yearbooks
see TK6540
6543
Collected works (nonserial)
6544
Dictionaries and encyclopedias
Biography
6545.A1
Collective
6545.A2-Z
Individual, A-Z
6547
History
6548.A-Z
By region or country, A-Z
6550
General works
Cf. TK9956+ Amateur construction
Radio -- Continued

6550.7 Popular works. Juvenile works
6550.8 Laboratory manuals
6552 Tables, calculations, etc.
6552.5 Radio measurements
6553 General special
   Including testing, standards, repairing, safety, two-way radio (Radiotelephone), etc.
6553.5 Addresses, essays, lectures
6554 Study and teaching. Research
   General works
6554.5 Examinations, questions, etc.
6555 Directories of radio stations
   Cf. TL695.5 Aircraft stations
6557 Trade directories
   Radio stations
   Cf. TH4655 Construction of radio station structures
6557.5 General works
   e.g.
6558.P5 Pittsburgh, KDKA
6559 Patents
   Apparatus
6560.A1-.Z4 General works
   Prefer TK6561+
6560.Z5 Trade publications
6561 Sending apparatus. Transmitters
6562.A-Z Special, A-Z
6562.D54 Digital audio broadcasting
6562.F2 FM broadcasting
6562.P32 Packet transmission
6562.S28 Satellite radio
6562.S5 Shortwave transmission
6562.S4 Single-sideband transmission
6562.S7 Stereophonic broadcasting
6562.W5 Wire broadcasting
   Radio receiving apparatus
   Including catalogs
6563 General works
6563.2 Collectors and collecting
6564.A-Z Special, A-Z
6564.C79 Crystal sets
6564.F7 Frequency modulation radios
6564.M64 Monitoring receivers
6564.P35 Panoramic receivers
6564.P6 Portable radios
6564.S5 Shortwave radios
6564.T7 Transistor radios
   Radio transmitter-receivers
   Class here works on the electronic engineering of radio transmitter-receivers and works on their
   use unless otherwise provided for in the field of application
   For specific makes of smartphones see QA76.8.A+
   For walkie-talkies see TK6865.W25
6564.3 General works
6564.4 Special devices, A-Z
6564.4.C45 Cell phones
   For specific makes of smartphones see QA76.8.A+
Radio
Apparatus -- Continued

6565.A-Z  Other radio apparatus, A-Z
6565.A55  Amplifiers
6565.A6   Antennas
          For special types see TK7871.67.A+
6565.A8   Attenuators
6565.C3   Cathode ray tubes
6565.C6   Coils
6565.C65  Condensers
6565.D4   Detectors
6565.D5   Direction finders
(6565.E6) Electron tubes
          see TK6565.V3
6565.F5   Filters
6565.F7   Frequency changers
Loudspeakers see TK5983
6565.M35  Mains supply
Microphones see TK5986
6565.O7   Oscillators
6565.P3   Panels
6565.R32  Radio and television towers
          Receivers see TK6563+
6565.R4   Recording apparatus
6565.R42  Rectifiers
6565.R426 Resistors
6565.R43  Resonators
6565.S9   Switchgear
          Television and radio towers see TK6565.R32
6565.T7   Transformers
6565.T73  Transmission lines
6565.V3   Vacuum tubes. Electron tubes
6565.V6   Voltage regulators
6565.W25  Walkie-talkies
6565.W3   Waveguides
6570.A-Z  Special applications of radio, A-Z
          Aircraft see TL692+
6570.A8   Automobiles
(6570.B7) Broadcasting
          see PN1991+
6570.C5   Citizens band radio
6570.C6   Radio control
6570.I34  Identification. Radio frequency identification systems
          Military radio systems see UG610+
(6570.M6) Mobile communication systems
          For systems and standards used in wireless communications see TK5103.2+
          Naval radio systems see VG76+
(6570.N43) Near field communication
          see TK5103.58
6570.P5   Pipelines
6570.P6   Police
6570.P8   Public safety radio service
6570.R27  Radio data systems
          Radio frequency identification systems see TK6570.I34
6570.R3   Railroads
Radio
  Special applications of radio, A-Z -- Continued

6570.T76
  Tropospheric scatter communication systems
  Wireless communication systems see TK5103.2+
  Extraterrestrial radio communication
    For radio in astronautics see TL3035

6571
  General works
6571.5.A-Z
  Special celestial bodies, A-Z
6571.5.M6
  Moon

Radar
6573
  Periodicals, societies, congresses, etc.
6574
  Dictionaries and encyclopedias
6574.2
  History
6574.4.A-Z
  By region or country, A-Z
6575
  General works
6576
  Popular works. Juvenile works
6578
  Tables, calculations, etc.
6580
  General special
6582
  Computer coordination of multiple radar systems

Apparatus
6585
  General works
6587
  Transmitting apparatus
    Including transmitter-receiver units
6588
  Receiving apparatus
6590.A-Z
  Other apparatus, A-Z
6590.A5
  Amplifiers
6590.A6
  Antennas
6590.C3
  Cathode ray tubes
6590.I5
  Indicators
6590.M5
  Microwave lenses
6590.O67
  Optical equipment
6590.O7
  Oscillators
6590.R3
  Radomes
6590.R4
  Resonators
6590.S4
  Servomechanisms
6590.T72
  Transmit-receive tubes
6590.V6
  Voltage regulators
6590.W3
  Waveguides
6592.A-Z
  Special types, A-Z
6592.A9
  Automatic tracking
6592.B57
  Bistatic radar
6592.C6
  Coherent radar
6592.C65
  Continuous wave radar
6592.D6
  Doppler
6592.G7
  Ground penetrating radar
6592.L67
  Low probability of intercept radar
6592.M55
  Millimeter wave radar
6592.M6
  Monopulse
6592.M67
  Moving target indicator radar
6592.O6
  Optical radar
6592.O94
  Over-the-horizon
6592.P85
  Pulse compression radar
6592.S4
  Search radar
6592.S95
  Synthetic aperture radar
6592.T48
  Through-the-wall imaging
6592.U48
  Ultra-wideband radar
Radar -- Continued

6595.A-Z Special applications of radar, A-Z
   To be classified here unless provided for elsewhere
   Aeronautics see TL692+

6595.G4 Geodesy
   Military science see UG610+
   Naval science see VG76+
   Navigation see VK560+
   Oceanographic research ships see VM453
   Radar on ships see VM480+

6600 Phototelegraphy. Picture telegraphy
   Including radio photographs
   Cf. TK6710+ Facsimile transmissions

Television
   Cf. GV1469.3+ Video games
   Cf. PN1992+ Television broadcasts

6630.A1 Periodicals, societies, etc.

6630.A2-Z General works

6634 Dictionaries and encyclopedias
   Biography

6635.A1 Collective

6635.A2-Z Individual, A-Z

6637 History

6638.A-Z By region or country, A-Z

6640 Popular works. Juvenile works
   Cf. TK9960+ Television for amateurs

6641 Laboratory manuals

6642 Handbooks, manuals, etc.

6643 General special

6644 Television as a profession

6645 Directories of television stations

6646 Television stations
   Cf. TH4656 Construction of television station structures

Television relay systems

6648 General works

6649.A-Z Special systems and projects, A-Z

Apparatus
   Cf. TK5105.8887 WebTV (Trademark)

6650 General works

6651 Transmitting apparatus

6653 Receiving apparatus

6655.A-Z Other, A-Z

6655.A5 Amplifiers

6655.A6 Antennas

6655.C3 Camera tubes
   Cathode ray tubes see TK6655.P5

6655.C5 Channel selectors

6655.D43 Deflection systems

6655.D54 Digital video recorders
   Cf. TK6655.V5 Video tape recorders
   Electronic cameras see TR882+

6655.O7 Oscillators

6655.P5 Picture tubes

6655.T7 Transformers

6655.T8 Tuners

6655.U6 Ultrahigh frequency apparatus (General)
Television
   Apparatus
       Other, A-Z -- Continued

6655.V5
   Video tape recorders
       Cf. TK6655.D54 Digital video recorders
       Cf. TR845+ Cinematography. Motion pictures. Video recording
       Cf. TR882.3 Camcorders

6658
   3-D television

6670
   Color television

6675
   Community antenna television

6676
   Master antenna television

6677
   Direct broadcast satellite television

6678
   Digital television
       Mobile television

6678.3
   General works

6678.5.A-Z
   Special systems, standards, formats, A-Z

6678.5.C56
   CMMB

6678.5.D84
   DVB-H

6679
   High definition television

6679.3
   Interactive television

6679.5
   Underwater television

6679.7
   Teletext systems

6680
   Closed-circuit television

6680.3
   Video surveillance
       Cf. HV7936.T4 Police work

   Video telephones see TK6505

Digital video
   Class here general works on using microcomputer technology to digitize moving images for
   inclusion in computer programs, including equipment and standards
   For works on using digital video technology in cinematography see TR860

6680.5
   General works

6680.8.A-Z
   Special systems, standards, software, A-Z

6680.8.A15
   3-D video

6680.8.A66
   Apple TV

6680.8.M74
   MPEG

6680.8.M93
   MyDVD

6680.8.R67
   Roxio Easy media creator
   Three-dimensional video see TK6680.8.A15

   Multimedia computer systems see QA76.575

6681
   Video game equipment
       Cf. GV1469.3+ Video games
       Cf. TK9971 Amateur constructors' manuals

6683
   Underwater television
   see TK6679.5

6685
   Video discs and video disc equipment

6687
   Interactive video
       Cf. LB1028.75 Education

Facsimile transmission

6710
   General works

6720
   Ultrafax
   For electric space heating see TH7409+

Installation of household appliances

7018
   Treatises
       Cf. TK9900+ Amateur constructors' manuals

7019
   Popular works

7028
   Catalogs
Installation of household appliances -- Continued

Electric bells and buzzers
   For buzzer systems in telegraphy see TK5522

7108  General works
7109  Popular works
7118  Catalogs of electric bells

Electric annunciators and alarms
   Cf. TH9739 Security in buildings

7201  General works
7221  Annunciators
       Alarms
7241  General works
   (7251)  Burglar alarms
            see TH9739
   (7271)  Fire alarms
            see TH9271
(7291)  Electric ignition of gas
       see TH6885
(7301)  Electric clocks
       see TS544

Miscellaneous electrical industries

(7611)  Electric train signaling
       see TF615+
   Train telegraph systems see TK5569.T7

7725  Manufacture of electrodes, carbons, etc.
       For use of carbons for arc lamps see TK4335

Electronics
   Cf. TK6540+ Radio
   Cf. TK6573+ Radar
   Cf. TK6630+ Television

7800  Periodicals. Societies. Serials
7801  Congresses. Conventions
       Exhibitions
7802.A1  General works
7802.A2-Z  By region or country, A-Z
       Subarrange each country by Table T4b
7803  Collected works (nonserial)
7804  Dictionaries and encyclopedias
7805  Directories
       Biography
7806  Collective
7809  History
       By region or country
       United States
7812.A-Z  Other regions or countries, A-Z
7815  Treatises
7816  Elementary textbooks
7817  Outlines, syllabi, etc.
7818  Laboratory manuals
7819  Popular works
7820  Juvenile works
7825  Handbooks, pocketbooks, tables, etc.
7828  Addresses, essays, lectures
7835  General special
7836  Electronic plants and equipment. Manufacture of electronic components and apparatus
Electronics -- Continued

7845
  Electronics as a profession
  Patents
7850.A1
  Periodicals, societies, etc.
7850.A2-Z
  General works
7855
  Research
  Study and teaching
7860
  General works
7862
  Problems, exercises, etc.
7863
  Examinations, questions, etc.
7864
  Mathematics
7866
  Drawing. Diagrams, etc.

Electronic circuits (General)
  For circuitry of special apparatus and components, see TK7871.2+ TK7871.2, Circuitry of
  amplifiers
7867
  General works
7867.2
  Electromagnetic interference and compatibility
7867.5
  Noise
7867.8
  Shielding
7868.A-Z
  Special circuits (General)
    Asynchronous
7868.A79
    Bridge
7868.B7
    Digital
    Integrated circuits see TK7874+
7868.I58
    Interface circuits
7868.L6
    Logic circuits
    Microwave circuits see TK7876+
7868.M64
    Molded interconnect devices
7868.P6
    Power supply
7868.P7
    Printed circuits
7868.P8
    Pulse
7868.S88
    Switched capacitor circuits
7868.S9
    Switching
7868.T5
    Timing
7868.T7
    Trigger

Apparatus and materials
7869
  Periodicals, societies, etc.
7870
  General works
  Electronic packaging
    Asynchronous
7870.15
    General works
7870.16
    Ball grid array technology
7870.17
    Chip scale packaging
7870.2
    Maintenance and repair. Electronic troubleshooting
7870.23
    Reliability. Failures
  Cf. TK7871.852 Semiconductor failures
    Environmental engineering. Operating environment
7870.24
    General works
7870.25
    Cooling. Thermal properties
7870.27
    Contamination and decontamination
7870.28
    Corrosion
7870.285
    Effect of radiation on
7870.3
    Catalogs
    Materials (General)
7871
  General works
7871.15.A-Z
  Special, A-Z
7871.15.B47
  Berlinite crystals
Electronics

Apparatus and materials

Materials (General)

Special, A-Z -- Continued

7871.15.C33 Cadmium alloys
7871.15.C35 Carbon
7871.15.C4 Ceramic materials
7871.15.D53 Diamonds
7871.15.F4 Ferrites
7871.15.F5 Films
7871.15.G3 Gallium arsenide
7871.15.G33 Gallium nitride
7871.15.G5 Glass
7871.15.I52 Indium arsenide
7871.15.I53 Indium phosphide
7871.15.M3 Magnetic materials
7871.15.M48 Metamaterials
7871.15.N53 Nickel alloys
7871.15.N57 Nitrides
7871.15.O7 Organometallic compounds
7871.15.P4 Phosphors
7871.15.P5 Plastic materials
7871.15.P6 Polymers
7871.15.P65 Potting compounds
7871.15.Q3 Quartz
7871.15.S54 Silicides
7871.15.S55 Silicon
7871.15.S558 Silicon nitride
7871.15.S56 Silicon organic compounds
7871.15.S77 Strontium compounds
7871.15.T56 Titanium
7871.15.T85 Tungsten
7871.15.Z56 Zinc

Amplifiers

7871.2 General works

Including vacuum-tube and transistor amplifiers

7871.22 Dielectric
7871.23 Magnetic

Cf. TK2851 Electric controllers

7871.24 Parametric

Rotating see TK2699

(7871.3-.37) Lasers

see TA1671+

(7871.33) Chemical lasers

see TA1690

(7871.35) Gas lasers

see TA1695

(7871.37) Solid-state lasers

see TA1705

7871.4 Masers

Cf. TA1671+ Lasers

7871.58.A-Z Other, A-Z
7871.58.A9 Audio
7871.58.B74 Broadband
7871.58.C75 Crossed-field
7871.58.D46 Differential
Electronics
Apparatus and materials
Amplifiers
Other, A-Z -- Continued
7871.58.D5 Direct current
7871.58.D54 Distributed
7871.58.F4 Feedback
7871.58.L57 Lock-in
7871.58.L6 Logarithmic
7871.58.O6 Operational
7871.58.P6 Power
7871.58.P8 Pulse
7871.58.T8 Tuned
7871.58.V5 Video amplifiers
Antennas and waveguides
7871.6
Antennas
Cf. TK6565.A6 Radio
Cf. TK6590.A6 Radar
Cf. TK6655.A6 Television
7871.65 Waveguides
7871.67.A-Z Special, A-Z
7871.67.A33 Adaptive antennas
7871.67.A77 Arrays
Circulary polarized antennas see TK7871.67.S65
7871.67.C95 Cylindrical antennas
7871.67.D56 Dipole antennas
7871.67.H54 High altitude platform systems
7871.67.L45 Lens antennas
7871.67.M5 Microstrip antennas
7871.67.M53 Microwave antennas
7871.67.M66 Monopole antennas
Optical antennas see TK8360.O65
7871.67.S65 Spiral antennas
Including circularly polarized antennas
7871.67.S83 Substrate integrated waveguides
7871.67.U45 Ultra-wideband antennas
(7871.674) Detectors, Sensors
see TK7872.D48
7871.676 Intelligent sensors
Electroluminescent devices
7871.68 General works
Light-emitting diodes see TK7871.89.L53
Electroluminescent display systems see TK7882.I6
Electron tubes
7871.7 General works
Vacuum tubes
7871.72 General works
7871.73 Cathode ray tubes
7871.74 Klystrons
7871.75 Magnetrons
7871.76 Storage tubes
7871.77 Traveling-wave tubes
7871.79.A-Z Other, A-Z
7871.79.G95 Gyrotrons
7871.79.K4 Kenotrons
7871.79.P4 Pentodes
Electronics
Apparatus and materials
Electron tubes
Vacuum tubes
Other, A-Z -- Continued
7871.79.T7
Trochotrons
7871.79.X2
X-ray tubes
Gas tubes
7871.8
General works
7871.82
Mercury-arc rectifiers
7871.83
Thyratrons
7871.84.A-Z
Other, A-Z
7871.84.C6
Cold cathode tubes
7871.84.N4
Neon tubes
Semiconductors
Class here works on semiconductor materials used in electronic engineering
For general works on the physical properties of semiconductor materials see QC610.9+
For specific semiconductor materials used in electronic engineering see TK7871.15.A+
7871.85
General works
7871.852
Failures (General)
For specific semiconductors see TK7871.86+
Diodes
7871.86
General works
7871.87
Tunnel diodes
7871.88
Varactors
7871.89.A-Z
Other, A-Z
7871.89.A94
Avalanche diodes
7871.89.G84
Gunn diodes
7871.89.L53
Light-emitting diodes
7871.89.S35
Schottky-barrier diodes
7871.89.S95
Switching diodes
7871.89.Z46
Zener diodes
Electroluminescent devices see TK7871.68+
Integrated circuits see TK7874+
Transistors
7871.9
General works
7871.92
Junction
7871.95
Field effect
7871.96.A-Z
Other, A-Z
7871.96.B55
Bipolar
7871.96.M53
Microwave
7871.96.T45
Thin film
7871.98
Thermistors
7871.99.A-Z
Other, A-Z
7871.99.A45
Amorphous semiconductors
Cf. QC611.8.A5 Physics
7871.99.C45
Charge transfer devices. Charge coupled devices
7871.99.C65
Compound semiconductors
7871.99.M4
Metal insulator semiconductors
7871.99.M44
Metal oxide semiconductors
7871.99.O74
Organic semiconductors
7871.99.T5
Thyristors
7871.99.V3
Varistors
Optoelectronic devices see TK8300+
Electronics
Apparatus and materials -- Continued

7872.A-Z

Apparatus and components to be classed here unless otherwise provided for in the field of
application
Capacitors see TK7872.C65
Charge transfer devices see TK7871.99.C45

7872.C56
Coils
Cold plates see TK7872.H4

7872.C65
Condensers. Capacitors

7872.C67
Contactors

7872.C68
Contacts

7872.C7
Counters

7872.C77
Cryoelectronic devices

7872.C8
Current converters

7872.C83
Current regulators

7872.D37
Decoders

7872.D4
Delay lines

7872.D48
Detectors. Sensors. Sensor networks
Infrared detectors see TA1573
Positioners see TJ223.P67
Voltage detectors see TK321
Intelligent sensors see TK7871.676
Metal detectors see TK7882.M4
Motion detectors see TK7882.M68
Proximity detectors see TK7882.P7
Optical detectors see TK8360.O67

7872.D53
Dielectric devices

7872.E45
Electron gun

7872.E7
Equalizers

7872.F4
Ferrite devices

7872.F44
Ferroelectric devices

7872.F5
Filters (Electric)

7872.F54
Flexible electronics

7872.F7
Frequency changers

7872.F73
Frequency synthesizers
Frequency-voltage converters see TK7872.V54

7872.F85
Function generators
Cf. TK7895.F8 Function generators (Computers)

7872.G8
Gunn effect devices

7872.G9
Gyrators

7872.H3
Hall effect devices

7872.H4
Heat sinks
Including cold plates

7872.I63
Inductors

7872.I65
Inverters

7872.L56
Liquid crystal displays

7872.L64
Logic devices

7872.M25
Magnetic cores and devices

7872.M3
Masks
Including microlithography

7872.M46
Membrane switches

7872.M5
Mixers

7872.M6
Modulators

7872.M8
Multiplexers

7872.N4
Negative-resistance devices
Electronics

Apparatus and materials

Other, A-Z -- Continued

7872.N6  Noise generators
7872.O7  Oscillators
7872.P38  Phase-locked loops
7872.P39  Phase shifters
7872.P54  Piezoelectric devices
7872.P6  Potentiometer
7872.P75  Printed electronics
7872.P8  Pulse generators
7872.R35  Rectifiers
7872.R38  Relays
7872.R4  Resistors
Sensor networks see TK7872.D48
Sensors see TK7872.D48
7872.S5  Signal generators
7872.S8  Superconductors
7872.T55  Thin film devices
7872.T57  Topological insulators
7872.T6  Transducers
7872.T7  Transformers
7872.T74  Transmission lines
7872.V53  Voltage dividers
7872.V54  Voltage-frequency converters
7872.V55  Voltage regulators

Microelectronics. Integrated circuits

For processes involving masks or microlithography see TK7872.M3
7874  General works
7874.5  Catalogs of microelectronic equipment
7874.53  Interconnects
7874.54  Lumped elements
7874.55  Integrated circuit layout
Integrated circuits, Three-dimensional see TK7874.893
7874.58  Testing. Measurement. Quality control
7874.6  Application-specific integrated circuits
7874.65  Digital integrated circuits
7874.654  Linear integrated circuits
7874.66  Low voltage integrated circuits
7874.7  Very high speed integrated circuits
7874.75  Very large scale integrated circuits
7874.76  Ultra large scale integrated circuits
7874.78  Radio frequency integrated circuits
7874.8  Molecular electronics
Nanoelectronics. Quantum systems
7874.84  General works
7874.843  Nanolithography
Including nanoimprint lithography
7874.845  Nanonetworks
7874.85  Nanowires
7874.88  Quantum dots
7874.885  Quantum systems control
7874.887  Spintronics
7874.888  Systems on a chip
7874.893  Three-dimensional integrated circuits
7874.9  Vacuum microelectronics
Electronics -- Continued

7875  Microelectromechanical systems
       For devices applied to a specific field, see the field
       For microharvesters, see TK2897

Microwaves
       Including microwave circuits

7876  General works
       Amplifiers see TK7871.2+
       Heating see TK4601+
       Transistors see TK7871.96.M53
       Tubes see TK7871.7+
       Waveguides see TK7871.65

7876.5  Millimeter waves
7877  Submillimeter waves
       Including terahertz technology

Electronic measurements
       General works

7878  Time measurements
       Electronic instruments
       Cf. TK301+ Electric meters
       General works
       Auxiliary equipment

7878.4  General works
7878.5  General works
7878.6  Probes
7878.7  Cathode ray oscillographs. Oscilloscopes
       Voltmeters
    General works
7879  Vacuum tube voltmeters
7879.4  Frequency meters

Applications of electronics

7880  General works
7881  Industrial electronics
    Special power supply circuits see TK7868.P6

7881.15  Power electronics

7881.2  Electronic control
    Home automation
       For home computer networks see TK5105.75

7881.3  Home entertainment systems
       Cf. TK9961 Home video systems amateurs' manuals
       Sound systems. Sound recording. Sound reproduction
       For electroacoustics see TK5981+

7881.4  General works
7881.45  Sound studios
7881.5  Intercommunication systems
       Magnetic tape recorders and recording
       General works
       Cf. TK5981+ Electroacoustics

7881.6  Digital audiotape recorders and recording
7881.65  High fidelity systems
7881.7  Compact disc players
7881.75  Minidiscs and players
       Stereo high fidelity systems. Quadraphonic sound systems
6881.78  General works
7881.8  Surround-sound systems
7881.83  Automobile sound systems and equipment
Electronics
Applications of electronics
Special applications
Sound systems. Sound recording. Sound reproduction -- Continued
7881.9
Theaters, auditoriums, etc.
7881.94
Virtual reality
7882.A-Z
Other, A-Z
Class works here unless otherwise provided for in the field of application
7882.A37
Agriculture
7882.B56
Biometric identification
7882.C56
Compact discs
Detectors, Metal see TK7882.M4
Detectors, Motion see TK7882.M68
7882.D93
DVDs. DVD players
7882.E2
Eavesdropping. Electronic surveillance
For video surveillance see TK6680.3
 Cf. HV7936.T4 Police work
7882.E44
Electronic paper
Facsimile transmission see TK6710+
7882.G35
Games
7882.I6
Information display systems
7882.M4
Metal detectors
Mobile communication systems see TK6570.M6
7882.M68
Motion detectors
7882.P3
Pattern recognition systems
 Cf. TA1650+ Optical pattern recognition
7882.P7
Proximity detectors
7882.S3
Scanning systems
7882.S65
Speech processing systems
7882.S78
Stun guns
Telecommunication see TK5101+
7882.T47
Three-dimensional display systems
 For three-dimensional video see TK6680.8.A15
 For stereoscopic photography see TR780
7882.W437
Wearable technology
 Class particular applications with the field of application, e.g., RD132, Artificial implants and implant materials
7882.W44
Weighing systems
Computer engineering. Computer hardware
 Including design and construction
 Cf. QA75.5+ Computers (General), electronic data processing, computer software, etc.
 Cf. QA267+ Machinery theory
 Cf. T58.6+ Industrial information systems
 Cf. TJ212+ Control engineering
7885.A1
Periodicals, societies, congresses, etc.
7885.A2
Dictionaries and encyclopedias
7885.A4
Directories
7885.A5
History
7885.A6-Z
General works
Biography
7885.2
Collective
7885.22.A-Z
Individual, A-Z
7885.4
Popular works
Amateurs' manuals for construction see TK9969
7885.5
Juvenile works
Computer engineering as a profession
Electronics
  Applications of electronics
    Computer engineering. Computer hardware
      Computer engineering as a profession -- Continued
        7885.53 General
        7885.54 Computer technicians
        7885.6 Study and teaching
        7885.7 Hardware description languages
        7886 Computer manufacturing plants. Manufacturing of computers and computer components
          Including management
    7887 Maintenance and repair
      Including upgrading
        Input-output equipment
      General works
        Special
        7887.5 Data tape drives
        7887.6 Analog-to-digital converters. Digital-to-analog converters
        7887.7 Printout equipment. Computer printers
        7887.8.A-Z Other equipment, A-Z
        7887.8.C6 Computer output microfilm devices
        7887.8.D37 Data disk drives
        7887.8.D5 Digital plotters
          Disk drives, Data see TK7887.8.D37
        7887.8.M63 Modems
        7887.8.R4 Reading machines
        7887.8.T4 Terminals
        7887.8.X18 XY plotters
    7888 Analog computers
      Digital computers
        7888.3 General works
        7888.4 Circuits
          Including logic and switching circuits
        7889.A-Z Special computers. By name, A-Z
        7889.A37 AIM 65
        7889.A66 Apple II
        7889.A663 Apple Ile
        7889.A85 AT&T
        7889.B3 BBC microcomputer
        7889.B4 Besm
        7889.C2 CDC 6600
        7889.E5 ES 1020
        7889.F44 FELIX C-256
        7889.I26 IBM Personal Computer
        7889.I5 Illiac
        7889.M33 Macintosh
        7889.M55 Minsk
        7889.R4 REAC
        7889.S4 Seac
        7889.S7 Strela
        7889.S8 Swac
        7889.T77 TRS-80
        7889.U6 Univac
        7889.U7 Ural
        7889.W47 Whirlwind
        7889.Z54 Zilog Model Z-80
Electronics
Applications of electronics

Computer engineering. Computer hardware -- Continued
7895.A-Z Special components and auxiliary equipment, A-Z
7895.A Amplifiers
7895.A65 Arithmetic units
Associative storage see TK7895.M4
7895.A8 Automatic test equipment
7895.B33 Backplanes. Motherboards
7895.B87 Buses
Cache memory see TK7895.M4
7895.C382 Cathode ray tube memory systems
7895.C39 CD-ROMs. CD-ROM drives
7895.C7 Cryotrons
7895.D28 Data loggers
7895.D3 Data tapes
7895.E42 Embedded computer systems
7895.E43 Embedded Internet devices
7895.E96 Expansion boards
7895.F8 Function generators
Cf. TK7872.F85 Function generators (Electronic instruments)
7895.G36 Gate array circuits
Input-output equipment see TK7887.5+
7895.M3 Magnetic memory
Memory cards see TK7895.S62
7895.M4 Memory systems
Including random access memory, read only memory, cache memory, associative storage, etc.
7895.M5 Microprocessors
Cf. TJ223.M53 Automatic control
Motherboards see TK7895.B33
7895.O6 Optical equipment
7895.P3 Paramemtrons
7895.P38 PCMCIA cards
7895.P68 Power supply
Random access memory see TK7895.M4
Read only memory see TK7895.M4
7895.S54 Shift registers
7895.S62 Smart cards. Memory cards
7895.S65 Speech recognition systems
7895.T73 Transputers
Optoelectronic devices. Photoelectric devices
Including circuits manuals
For special applications, see the field of application, e.g. TR260.5 Electric eye cameras
For general works on optoelectronics see TA1750+
8300 Periodicals, societies, congresses, etc.
8304 General works
Optical wave guides
8305 General works
8306 Optical fibers
Photoemissive tubes. Phototubes
8308 General works
8312 Photodiodes
8314 Photomultipliers
Imaging systems
8315 General works
Electronics
Optoelectronic devices. Photoelectronic devices
Photoemissive tubes. Phototubes
Imaging systems
8316
Image converters and intensifiers
Cf. TK8334 Solid-state image intensifiers
Semiconductor devices
8320
General works
8322
Photovoltaic cells
For solar batteries see TK2960+
Photoconductive cells
8330
General works
8331
Photoresistors
8332
Phototransistors
8334
Solid-state image intensifiers
8360 A-Z
Other devices, A-Z
8360.E44
Electrochromic devices
8360.L48
Light amplifiers. Optical amplifiers
8360.L5
Light modulators
8360.M53
Microresonators
8360.O65
Optical antennas
Optical amplifiers see TK8360.L48
8360.O67
Optical detectors
8360.O68
Optical MEMS. Micro-optomechanical systems
8360.O69
Optical tweezers
8360.P5
Photopotentiometer
(8404)
Optical data processing systems
see TA1630+
Plasmonics
8583
Periodicals, societies, etc.
8584
Congresses
8585
General works
Nuclear engineering. Atomic power
9001
Periodicals, societies, etc.
9006
Congresses
Exhibitions. Museums
9007.A1
General works
9007.A2-Z
By region or country, A-Z
Subarrange each country by Table T4b
9008
Collected works (nonserial)
9009
Dictionaries and encyclopedias
9012
Directories
Biography
9013
Collective
9014.A-Z
Individual, A-Z
9021-9127
Country divisions (Table T1a)
Add country number in table to TK9000
9145
General works
9146
Elements. Popular works
9148
Juvenile works
9149
Laboratory manuals
9151
Handbooks, tables, etc.
Radiation environment procedures and equipment
Cf. HV8077.5.N83 Nuclear forensics
Cf. RA569 Radioactive substances and ionizing radiation in public health
Cf. TK9210+ Shielding
Nuclear engineering. Atomic power

Radiation environment procedures and equipment -- Continued

9151.4 General works
Remote handling

9151.6 General works
Manipulators. Glove boxes

9151.7 Accidents and their prevention. Nuclear safety
For accidents or safety of nuclear power plants in specific places see TK1341+

9152 General works
9152.13 Emergency planning
9152.14 Human factors
9152.15 Inspection
9152.16 Risk assessment
9152.163 Earthquake engineering
9152.1645 Security measures
9152.165 Storage
Including temporary storage of discarded materials
For permanent disposal see TD898.17+

9152.17 Transportation of radioactive substances
Cf. TD897.85+ Radioactive waste disposal

9152.2 Decontamination. Decommissioning of facilities
Cf. RA569 Public health
Cf. S589.6 Agriculture
Cf. TD427.R3 Water pollution
Cf. TD887.R3 Air pollution
Cf. TD898.15+ Radioactive waste sites

9152.5 Patents
9153 General special
9155 Addresses, essays, lectures
9155.5 Nuclear engineering as a profession
Study and teaching
9165 General works
9165.5 Examinations, questions, etc.
United States
9166 General works
9167.A-Z Special schools. By place, A-Z
9168.A-Z Other countries, A-Z
9169.A-Z Special schools. By place, A-Z

Instruments. Nuclear reactor instrumentation

9178 General works
9180 Nuclear counters
Cf. QC787.C6 Counters
9182 Neutron sources
9183.A-Z Other special instrumentation, A-Z
9183.S24 Safety instrumentation
9183.T54 Thermometers

Materials
For reactor fuels, enrichment, reprocessing see TK9360+
For radioisotopes, radioactive substances see TK9400+

9185.A1 Periodicals, societies, etc.
9185.A2-Z General works
9185.2.A-Z Special, A-Z
9185.2.G73 Graphite
9185.2.H33 Hafnium
9185.2.L43 Lead
9185.2.M66 Molybdenum
Nuclear engineering. Atomic power -- Continued

Nuclear reactors
For nuclear power plants for electricity see TK1341+

Fission reactors
9202
General works
9203 A-Z
Special types, A-Z
9203.A28
Accelerator-driven systems
9203.B6
Boiling water reactors
9203.B7
Breeder reactors
9203.F3
Fast reactors
9203.F5
Fluid fuel reactors
9203.G3
Gas cooled reactors
9203.H4
Heavy water reactors
9203.L45
Light water reactors
9203.L5
Liquid metal-cooled reactors
9203.M65
Molten salt reactors
9203.O7
Organic moderated reactors
9203.P7
Pressurized water reactors
9203.P8
Pulsed reactors
9203.S6
Sodium graphite reactors
9203.S65
Solid fuel reactors
9203.S86
Superheating reactors
9203.W37
Water-cooled reactors
9204
Fusion reactors
9207
Fuel elements
9207.5
Fuel claddings
9209
Moderators
Shielding
9210
General works
9211
Containment
9211.5
Nuclear pressure vessels
9211.7
Nuclear power piping
9212
Cooling
9220
Control rooms for nuclear facilities
9230
Nuclear reactors for propulsion
Cf. TJ623 Nuclear locomotives
Cf. TL704.1 Atomic engines for aircraft
Cf. TL783.5 Nuclear rockets
Cf. VM774+ Marine nuclear reactor plants
9340
Particle accelerators
9350
Chemical processes. Radiochemistry
Reactor fuels. Enrichment. Reprocessing
9360
General works
9363
Uranium as fuel
9365
Plutonium as fuel
Radioisotopes. Radioactive substances
9400
General works
9401
Catalogs, pricelists, etc.

Electricity for amateurs. Amateur constructors' manuals
9900
Periodicals, societies, etc.
9901
General works
9909
Magnetoelectric machines
9911
Generators and motors
9915
Transformers
9917
Electric batteries
9918
Solar batteries. Solar cells
Electricity for amateurs. Amateur constructors' manuals -- Continued

9921 Electric lighting and lamps
   Cf. TT197.5.L34 Woodwork
   Cf. TT897.2 Decorative crafts
   Electric bells see TK7108+

9941 Telegraph
   General works

9946 Wireless telegraph

9951 Telephone
   General works
   Radio. Wireless telephone

9956 Microwave communication systems
   Cf. TK5103.2+ wireless communication systems

9957 Television
   General works

9960 Video tape recorders. Video recording. Home video systems
   Cf. TR896+ Home video photography

9961 Satellite television. Home earth stations

9962 Electronics (General)
   General works

9965 Integrated circuits

9966 Magnetic recorders and recording

9967 Sound systems
   Including high fidelity and stereophonic systems

9968 Computers
   Home computer networks, including amateurs' manuals see TK5105.75

9969 Electronic games and toys
   Including video games
Motor vehicles. Aeronautics. Astronautics

Motor vehicles
Including automotive engineering
Cf. GV1020+ Automobile travel

Periodicals and societies
Arrange by language of publication

1 English
2 French
3 German
4 Other languages (not A-Z)

(5) Yearbooks
see TL1+

6 Congresses
Exhibitions. Museums. Collectors and collecting
Cf. TL152.2 Restoration of automobiles

7.A1 General works
7.A2-Z By region or country, A-Z
Subarrange each country by Table T4b

8 Collected works (nonserial)

9 Dictionaries. Encyclopedias
Communication of automotive information

10 General works
11 Computer network resources
Including the Internet

12 Directories

15 History. Pictorial works

21-127 Special countries (Table T1a)
Add country number in table to TL0
Including registers

Biography

139 Collective
140.A-Z Individual, A-Z
General works
Cf. TL200+ Automobiles

144 Early to 1890
145 1890-

146 Elementary textbooks
146.5 Popular works
147 Juvenile works
151 Manuals, pocketbooks, etc.

Motor vehicle operation. Automobile operation
Cost of operation
General works
151.6 Fuel consumption

Maintenance and repair
General works
152
152.15 Cleaning. Detailing
152.2 Restoration
152.25 Safety measures

Drivers
Including health and psychology
Cf. HD8039.A76+ Automobile driving as an occupation
Cf. HE5613.5+ Traffic accidents, safety, etc.

152.3 General works
152.35 Medical and psychological examination
152.4 Drivers’ tests
Motor vehicles
Motor vehicle operation. Automobile operation -- Continued

Driving
152.5
General works
Special countries
152.52
United States
152.55.A-Z
Other countries, A-Z
152.58
Stunt driving
Driver education
152.6
General works
152.65
Elementary and secondary school courses
152.66.A-Z
By region or country, A-Z
152.7.A-Z
Special methods and equipment, A-Z
152.7.D7
Driving simulators
152.8
Automatic control
Cf. TE228.3+ Intelligent transportation systems

153
Service stations
Battery charging stations (Electric vehicles) see TL220.5
153.5
Lubrication and lubricants
153.7
Towing
154
General special
155
Addresses, essays, lectures
156
Study and teaching. Automobile schools
157
Examinations, questions, etc.
158
Research
Automobile equipment and supplies
Including parts catalogs
Cf. TL240+ Design, construction and equipment
159
General works
159.5
Cf. HE5620.S34 Seat belt use
Cf. TL242 Safety factors. Safety standards
160
Catalogs of dealers
For special motive powers see TL200+
162
Automobile purchasing. Buyers' guides
165
Motor vehicle fleets
175
Parking facilities
Including parking lots and parking garages
Cf. HE336.P37 Parking

Special automobiles. By power
200
Steam automobiles
Steam wagons, trucks, etc. see TJ705
Gasoline automobiles
Where possible use TL144+
205
General works
206
Popular works. Juvenile works
207
Manuals, pocketbooks, etc.
(208)
Maintenance and repair
see TL152+
209
General special
Construction details
Motors. Engines
Cf. TJ782+ Internal combustion engines
210
General works
210.5
Two-stroke cycle engines
210.7
Wankel engines
Motor vehicles
Special automobiles. By power
Gasoline automobiles
Construction details -- Continued

212
Carburetors and carburetion

213
Ignition devices. Magnetos

214.A-Z
Other, A-Z

214.A4
Air filters

214.B43
Bearings

214.C35
Camshafts

214.C64
Control systems
Cooling system see TL214.R3

214.C73
Crankshafts

214.C93
Cylinders. Cylinder heads. Cylinder blocks

214.E93
Exhaust systems
Including exhaust manifolds

214.F78
Fuel injection systems

214.F8
Fuel systems

214.G37
Gaskets
Low pollution combustion see TL214.P6

214.M68
Motor mounts

214.O5
Oil system

214.P57
Pistons

214.P6
Pollution control devices. Low pollution combustion
Cf. TD886.5 Automobile exhaust pollution

214.R3
Radiator. Cooling system

214.S8
Superchargers

214.T55
Timing belts. Timing chains
Timing chains see TL214.T55

214.T87
Turbochargers

214.V3
Valves

215.A-Z
Special makes, A-Z
Including catalogs, handbooks, etc.

215.A235
Acabion

215.A35
Alfa Romeo

215.A75
Aston Martin

215.B25
BMW

215.B4
Bentley

215.B82
Bugatti

215.B84
Buick

215.C27
Cadillac

215.C33
Camaro

215.C44
Challenger

215.C443
Chandler

215.C48
Chevelle

215.C5
Chevrolet

215.C56
Citroën

215.C6
Corvette

215.F47
Ferrari

215.F69
Focus

215.F7
Ford

215.G4
General Motors

215.J3
Jaguar

215.K64
Koenigsegg

215.L33
Lamborghini

215.L95
Lykan HyperSport
Motor vehicles
   Special automobiles. By power
   Gasoline automobiles
      Special makes, A-Z -- Continued

215.M34  Maserati
215.M4   Mercedes
215.M465 Mini
215.M8  Mustang
215.N35 Nano
215.O68 Optima
215.P68 Pontiac
215.P75 Porsche
215.R4   Renault
215.R445 Reva (Italy)
215.S79 Studebaker
215.T43 Tesla
215.V544 Viper
215.V6   Volkswagen
215.W73 Wrangler

216.5 Alternative fuel vehicles
217 Alcohol automobiles
   Electric vehicles and their batteries, etc.
      For special makes see TL215.A+

220 General works
220.5 Battery charging stations
221.13 Fuel cells for vehicles
221.15 Hybrid vehicles. Hybrid cars
222 Solar vehicles. Solar cars
223 Industrial vehicles and trucks
225 Compressed-air automobiles
   Gas turbine automobiles
   General works
227 Automotive gas turbines
228 Natural gas vehicles
   For gas producer automobiles see TL229.G3

229.A-Z Other, A-Z
229.A25 Acetylene
   Alcohol see TL217
   Amphibious
   see TL235.63
(229.C66) Compressed natural gas
   see TL228
229.D5   Diesel
229.G3   Gas producer
(229.G33) Gases, Compressed
   see TL228
229.H9   Hydrogen
229.L56  Liquid nitrogen
229.M47  Methanol
229.M48  Methyl ether
(229.N38) Natural gas
   see TL228
   Nitrogen, Liquid see TL229.L56
Motor vehicles -- Continued
  Automobiles for freight, etc. Trucks
    Including vans and sport utility vehicles
    For steam wagons, trucks, etc. see TJ705
    For truck-mounted campers and coaches see TL298
    Cf. TL297.6 Truck trailers

230.A1
  Periodicals, societies, etc.

230.A2-Z
  General works

230.12
  Pictorial works

230.15
  Juvenile works

230.2
  Maintenance and repair

230.3
  Truck drivers, driver training and driving
    Cf. HD7269.A+ Industrial hygiene and welfare of truck drivers
    Cf. HD8039.A76+ Automobile driving as an occupation
    Cf. HE5601+ Regulations and special problems

230.5.A-Z
  Special types, makes, etc., A-Z
230.5.B68
  BMW X3 sport utility vehicle
230.5.C37
  Caravan van
230.5.C45
  Chevrolet trucks
230.5.E785
  Escalade sport utility vehicle
230.5.F54
  Foden trucks
230.5.F57
  Ford trucks
230.5.F6
  Four Wheel Drive Vehicle
230.5.M58
  Monster trucks
230.5.N57
  Nissan trucks
230.5.S28
  Scania trucks
230.5.W45
  White trucks

Buses
  Cf. HE5601+ Automotive transportation (economic aspects)

232
  General works

232.2
  Maintenance and repair

232.3
  Bus drivers, driver training, and driving

232.5
  Taxicabs

232.7
  Limousines

Tractors
  Cf. S711+ Transportation and power transmission machinery (Use on farms)
    Cf. TJ700 Steam traction engines

233.A1
  Periodicals, societies, etc.

233.A2-Z
  General works

233.15
  Juvenile works

233.2
  Maintenance and repair

233.25
  Conservation and restoration. Collectors and collecting

233.3
  Tractor driving. Tractor pulling (Motorsports)

233.6
  Special types, makes, etc., A-Z

233.8
  Models

Tracklaying vehicles
  For military tanks see UG446.5

234
  General works

234.2
  Snowmobiles
    Cf. GV856.4+ Snowmobiling

235
  Automobile trains

Off-road vehicles
  Including off-road trucks and all terrain vehicles
  For snowmobiles see TL234.2
  For dune buggies see TL236.7
  For trail bikes see TL441
Motor vehicles

Off-road vehicles -- Continued

235.6
General works
235.63
Amphibious vehicles
235.65.A-Z
Special makes, A-Z
235.7
Off-road vehicle driving
   Including all terrain vehicle driving
235.8
Ambulances, hearses, etc.
   Cf. RA995+ Ambulance service

Racing automobiles. Sports cars

Class here works on racing or sports cars in general and special makes of racing or sports cars
For special classes of racing automobiles, see the class, e.g., Sprint cars see TL236.27, Rally cars see TL236.4, Karts see TL236.5, etc.

236
General works
236.15.A-Z
Special makes, A-Z
236.15.M35
McLaren

Dragsters
236.2
General works
236.23
Funny cars
236.25
Indy cars
236.265
Formula One automobiles
236.27
Sprint cars
236.28
Stock cars
236.3
Hot rods. Street rods
236.4
Rally cars
236.46
Touring cars (Racing automobiles)
236.5
Karts
236.6
Midget cars
236.7
Dune buggies
   Cf. GV1029.9.D8 Racing

Models
237
General works
237.2
Collectors and collecting

Design, construction and equipment
240
General works
240.2
Amateurs’ manuals. Kit cars
240.5.A-Z
Special materials, A-Z
   For materials of a special component, see the component
240.5.A46
Alloys
240.5.A48
Aluminum
240.5.C65
Composite materials
240.5.G56
Glass
240.5.M33
Magnesium
240.5.P42
Plastics
240.5.S74
Steel
240.5.W64
Wood
241
Fires and fire prevention
242
Safety factors. Safety standards. Crashworthiness
   Dynamics
   Including effect of soil mechanics
   For traction see TL295
243
General works
245
Aerodynamics
245.2
Moments. Pitch. Yaw. Roll
Motor vehicles
Design, construction and equipment
   Dynamics -- Continued
245.5  Handling characteristics
245.8  Stability
246  Vibration. Noise
250  Human engineering in design
       Including trucks, buses, etc.
253  Automotive drafting
Special topics
   Motors see TL210+
   Frame. Chassis. Carriage body
255  General works
255.15 Bodies-in-white
255.2 Customizing. Decorating. Painting
255.6 Seats
255.8 Metalwork
255.85 Mirrors. Rearview mirrors
256  Upholstery
256.5 Windows and windshields
Springs and suspension
257  General works
257.3 Air suspensions
257.5 Shock absorbers
259  Steering gear
Running gear. Power trains
260  General works
261  Clutches
   Transmission devices
      General works
262  Automatic transmission devices
263 Other transmission types, A-Z
264.A-Z  Continuously variable transmission devices
264.C66 Transaxles
Brakes
269  General works
269.2 Air brakes
269.3 Antilock brake systems
269.36 Disc brakes
269.37 Drum brakes
270 Wheels and tires
Heating and ventilation equipment
271  General works
271.5 Air conditioning
271.9 Window and windshield defrosters
272 Electric equipment. Batteries
      Including starting, lighting and ignition devices, etc.
      Cf. TK2921 Primary cells
      Cf. TK2941 Storage batteries
      Cf. TL213 Ignition
      Cf. TL220+ Batteries for electric automobiles
Electronic equipment
272.5  General works
272.52 Collision avoidance systems
272.53 Computers
       For engine control modules see TL214.C64
Motor vehicles
   Design, construction and equipment
   Special topics
   Electronic equipment -- Continued
   272.54 Automotive event data recorders
   272.55 Display systems
   Audio equipment see TK781.85
   272.57 Driver assistance systems
   272.58 Telematics
   273 Automobile headlights
   274 Automobile horns
   275 Other details
   278 Manufacturing. Factory methods and equipment
   278.5 Quality standards
      Including QS-9000
   280 Patents
   285 Testing (General)
      Including motor vehicle safety inspection. For emissions inspection, see TL214.P6
      Cf. TL242 Safety factors in motor vehicle design and construction
   290 Endurance tests
   295 Traction. Skidding. Traction tests
      Cf. TE450 Roads and pavements
   296 Industrial power trucks
   296.5 Loaders (Automotive)
      Trailers
      Cf. GV198.5+ Trailer camping
      Cf. TH481.48 Mobile home construction
      Cf. TX1100+ Mobile home living
   297 General works
   297.2 Boat trailers
   297.6 Truck trailers
      Including piggyback trailers
   298 Truck-mounted campers and coaches
   390 Cyclecars
   Cycles
      Cf. GV1040+ Cycling
   400 General works
      Including history
   405 Early forms
      Including velocipedes
   Bicycles and tricycles
      Cf. HD993.B54+ Bicycle industry
      Cf. HE5736+ Bicycle transportation
   410 General works
   412 Juvenile works
   Motor bicycles see TL443
   Details. Parts
   414 General works
   415 Frame
   420 Driving gear
   422 Wheels
   425 Tires
   430 Repairs
   435 Catalogs and other trade publications
      Including cycles
Cycles
Bicycles and tricycles -- Continued

437
Patents
Including cycles and motorcycles

437.5.A-Z
Special types, makes, etc., A-Z

437.5.V45
Velomobiles

438
Models
Including cycles and motorcycles

Motorcycles

439
Dictionaries

439.5.A-Z
By region or country, A-Z

440
General works

440.15
Juvenile works

440.2
Motorcyclists

440.5
Motorcycle riding

441
Trail bikes. Dirt bikes
Racing motorcycles
Cf. GV1060+ Motorcycle racing

442
General works

442.5
Drag bikes

442.7
Choppers and bobbers
Including home-built and customized motorcycles

443
Motor bicycles

444
Maintenance and repair

444.2
Conservation and restoration. Collectors and collecting

444.5
Workshops and shop practice

445
Motors, etc.

448.A-Z
Special types, makes, etc. A-Z

  e.g.

448.A47
Ariel

448.B18
BMW

448.C54
Cleveland

448.D8
Ducati

448.E44
Electric motorcycles

448.H3
Harley-Davidson

448.H6
Honda

448.I5
Indian

448.K38
Kawasaki

448.M66
Moto Guzzi

448.S8
Suzuki

448.T7
Triumph

448.Y3
Yamaha

Motor scooters

450
General works

453.A-Z
Special makes, A-Z

453.C87
Cushman

453.H66
Honda

453.L3
Lambretta

453.T84
Tul’skiĭ

453.V47
Vespa

460
Autosleds
Roving vehicles (Astronautics)

475
General works

480
Moon cars

482
Coaster cars
Cf. GV1029.7 Soapbox racing, etc.
Pedal cars
Golf carts

Aeronautics. Aeronautical engineering
- Cf. GV750+ Air sports
- Cf. HD9711.3 Lighter-than-air craft industry (Economic aspects)
- Cf. HD9711.5 Aerospace industry
- Cf. HE9761+ Air transportation
- Cf. UG622+ Military aeronautics. Air warfare
- Cf. VG90+ Naval aeronautics. Naval air warfare

Periodicals, societies, yearbooks, etc.

International

500
- General

500.5
- International Civil Aviation Organization
  - Including technical material and general collections published by the organization that includes material of a technical nature
  - For administrative material see HE9762.5

501
- English language

502
- French language

503
- German language

504
- Other, not A-Z by language

505
- Congresses

506.A1
- Exhibitions. Museums. Collectors and collecting
  - General works

506.A2-Z
- By region or country, A-Z
  - Subarrange each country (except the United States) by Table T4b

506.U5
- United States
  - General works

506.U6A-.U6Z
- Local, A-Z

507
- Collected works (nonserial)

508
- Scrapbooks

509
- Dictionaries, encyclopedias, etc. Nomenclature. Symbols. Abbreviations
  - Directories. Registers

512
- General works
  - Registers of aircraft see HE9769.A+

512.7
- Registers of pilots

513
- Patents

514
- Catalogs of materials and equipment (General)

History

515
- General works

516
- Antiquities and legends

Special regions or countries
- Cf. TL539+ Biography

America. United States

521
- General works
  - U.S. National Aeronautics and Space Administration (NASA)
    - For special space research centers see TL862.A+
    - For NASA launch complexes see TL4027.A+

521.3.A-Z
- Serials and collected sets, A-Z
  - e.g.

521.3.C6
- Contractor report

521.312
- Monographs

521.5
- Regions

522.A-.W
- States, A-W
Aeronautics. Aeronautical engineering
Special regions or countries -- Continued

523
Canada

524.A-Z
Latin America, Central America and West Indies. By country or island, A-Z

525.A-Z
South America, A-Z

526.A-Z
Europe, A-Z
e.g.

526.G7
Great Britain

526.A-Z
Asia, A-Z
e.g.

527.I6
Indonesia
527.P4
Philippines

528.A-Z
Africa, A-Z
529
Australia
529.5
New Zealand
Pacific Islands

530.A1
General works
530.A5-Z
Special islands, A-Z
531
Transoceanic flights
532
Arctic regions. Antarctica
537
Awards, prizes, etc. Competitions
Cf. TL721.5+ Air meets
538
Badges, insignia, etc.
Biography
539
Collective
540.A-Z
Individual, A-Z
e.g.

540.L5
Lindbergh
General works
544
Early to 1900
Cf. TL516 Antiquities and legends
545
1900-
546
Textbooks
546.5
Examinations, questions, etc.
546.7
Popular works
547
Juvenile works
549
Pictorial works
551
Handbooks, pocketbooks, tables, etc.
551.5
High-speed aeronautics
For supersonic and transonic aerodynamics see TL571
For hypersonic aerodynamics see TL571.5
552
Civil aviation (Technology)
Cf. HE9761+ Air transportation
Cf. TL515+ History of aeronautics
Cf. TL664+ Use of airships
Cf. TL719.92+ Special uses of airplanes

Miscellaneous aspects of the general subject
553
General works
Accidents and their prevention. Air safety
Cf. HE9784+ Air transportation
Cf. TL697.S3 Safety devices (General)
553.5
General works
By region or country
United States
553.52
General works
553.525.A-Z
By region or state, A-Z
Aeronautics. Aeronautical engineering
   Miscellaneous aspects of the general subject
   Accidents and their prevention. Air safety
      By region or country -- Continued
553.53.A-Z
   Other regions or countries, A-Z
   Geography and aviation see G142
   Aviation risks in life insurance see HG8810
   Aviation insurance see HG9972+
553.54
   Aircraft bird strikes
      For airport bird control see TL725.3.B5
553.545
   Foreign object debris
553.55
   Near misses
553.6
   Human engineering in aeronautics
553.7
   Survival after airplane accidents
553.8
   Search and rescue
   Survival and rescue adventures and narratives
553.9.A1
   Periodicals, societies, etc.
553.9.A2-Z
   General works
   Aeronautics in art see N8217.A4
(554)
   Aeronautics in literature
      see class P
   Wit and humor see PN6231.A4
555
   Physical and mental requirements for pilots
      Including tests
      For clinical aspects see RC1050+
      Cf. RA615.2 Public health aspects
      Cf. RA641.5 Transmission of disease
      Cf. RA655+ Quarantine
   Meteorology in aeronautics. Aeronautical meteorology
556
   General works
556.5
   Study and teaching
557.A-Z
   Special, A-Z
557.A5
   Air currents. Winds
   Atmospheric electricity see TL557.S65
557.A8
   Atmospheric temperature
      Cf. TL557.D4 Density altitude
557.C4
   Charts
557.C6
   Clouds
557.C7
   Condensation trails
557.D4
   Density altitude. Density altitude computers
      Density altitude computers see TL557.D4
557.F6
   Fog control
557.H3
   Hail
557.I3
   Ice prevention
557.R4
   Reporting and forecasting
557.S65
   Static electricity. Atmospheric electricity
557.S7
   Storms
557.V5
   Visibility
   Winds see TL557.A5
557.V64
   Volcanic ash
558.A-Z
   By region or country, A-Z
      e.g.
558.A1
   General
558.A5
   Antarctica
558.F8
   France
558.G4
   Germany
Aeronautics. Aeronautical engineering -- Continued

559
Addresses, essays, lectures
Study and teaching
Cf. LB1594.5 Elementary education

560
General works
United States
560.1
General works
560.2.A-Z
Special schools, A-Z
Employee training in factories
560.25.A1
General works
560.25.A2-Z
By company, A-Z
560.3.A-Z
Other countries, A-Z
560.4.A-Z
Special schools, A-Z
Flying schools see TL713.A+

561
Aeronautics as a vocation
563
Electronic data processing
Communication of aeronautics information
563.5
General works
564
Information services
564.5
Language. Authorship
Aeronautical research
Cf. UG640+ Military aeronautical research
565
General works
Research equipment. Laboratory construction and layout
566
General works
567.A-Z
Special, A-Z
567.B3
Balances
567.B33
Ballistic ranges
567.B4
Basins. Water channels
567.I6
Instruments
567.M6
Models for wind tunnel and water testing
567.N6
Nozzles
567.P6
Plane table
567.R47
Research aircraft
567.S4
Shock tubes
567.T6
Towing apparatus
Water channels see TL567.B4
567.W5
Wind tunnels
568.A-Z
Special institutions, A-Z
Including research conducted by governments, universities or others
For the research reports, transactions and other serial publications of such institutions see TL500+
Mechanics of flight: Aerodynamics
570
General works
570.3
Dictionaries and encyclopedias
571
Supersonic aerodynamics (General)
Including transonic aerodynamics
For special topics see TL574.A+
571.5
Hypersonic aerodynamics (General)
For special topics see TL574.A+
Cf. TL683.5 Hypersonic planes
573
General special
574.A-Z
Special topics, A-Z
574.A37
Aeroelasticity
574.A4
Aerofoils. "Profils d'ailes"
574.A44
Aeroservoelasticity
Aeronautics. Aeronautical engineering
Mechanics of flight: Aerodynamics
Special topics, A-Z -- Continued

574.A45
Aerothermodynamics. Aerodynamic heating
Aerodynamic heating see TL574.A45

574.B3
Base flow

574.B6
Boundary layer
Burbling see TL574.T8

574.C3
Cascades
Compressibility
Compressibility burbles see TL574.T8

574.C6
Control
Damping see TL574.S7

574.D6
Downwash

574.D7
Drag. Head resistance
Flow

574.F7
Flutter
Friction
Ground cushion see TL574.G7

574.G7
Ground effect. Ground cushion
Head resistance see TL574.D7

574.I5
Interference

574.L3
Laminar flow

574.L4
Leading edges
Lift. Thrust

574.M3
Magnus effect

574.M6
Moments. Pitch. Yaw. Roll
Noise
Oscillations see TL574.S7
Pitch see TL574.M6

574.P7
Pressure. Pressure distribution. Wing load
Pressure distribution see TL574.P7
Resistance see TL574.D7
Resistance, Air see TL570+
Roll see TL574.M6

574.S4
Shock waves

574.S55
Sonic boom

574.S6
Spinning

574.S7
Stability. Oscillations. Damping

574.S74
Stalling
Thrust see TL574.L5

574.T8
Turbulence. Burbling
Including compressibility burbles

574.U5
Unsteady flow

574.V5
Vibration

574.V6
Vortex theory

574.W3
Wakes
Wing load see TL574.P7
Yaw see TL574.M6

575
Natural flight
Cf. QL698.7 Flight of birds

576
Soaring

577
Hovering

578
Aerostatics
Air navigation. Astronomy and navigation for air pilots

586
General works
Aeronautics. Aeronautical engineering

Air navigation. Astronomy and navigation for air pilots -- Continued

587
Logbooks, maps, charts, tables, etc.
Cf. QB7+ Ephemerides
Special methods. Latitude and longitude
Cf. VK565 Navigation

588
General works
588.5
Inertial navigation
588.7
Performance-based navigation

Instruments
589
General works
589.2.A-Z
Special, A-Z
589.2.A3
Accelerometers
589.2.A5
Air-speed indicators
589.2.A6
Altimeter
Anemometer see QC932
589.2.A78
Artificial horizons
589.2.A8
Autosyn indicator
589.2.B3
Barograph
589.2.C5
Cinemitrailleuse
589.2.C58
Compass (Gyroscope)
589.2.C6
Compass (Magnetic)
589.2.D7
Drift indicator
589.2.E2
Earth inductor compass
589.2.F5
Flight recorders
589.2.N3
Navigation computer
589.2.O6
Optical gyroscope
589.2.P7
Pressure instruments
(589.2.R2)
Radio compass
see TL696.C7
589.2.R3
Rate of climb indicator
589.2.S4
Sextant
589.2.S7
Stall warning systems
589.2.T4
Tensionmeter
589.2.T5
Theodolite
589.2.T53
Thermometers
589.2.T8
Turn and bank indicator

Display systems
589.3
General works
589.35.A-Z
Special, A-Z
589.35.G46
Geographical displays
589.35.H42
Head-up displays
589.35.H44
Helmet-mounted displays

Guidance systems and automatic control
Including general works on drone aircraft guidance and control systems
589.4
General works
589.5
Automatic pilots. Gyropilot

Engine instruments
589.6
General works
589.7.A-Z
Special, A-Z
589.7.T3
Tachometer

Sailing directions. Pilot guides see TL726+
Aircraft (General)
Including both lighter-than-air and heavier-than-air

600
General works
Aeronautics. Aeronautical engineering
Aircraft (General) -- Continued

603 Identification marks and symbols
   Cf. TL694.14 Identification of aircraft by radar signal (IFF equipment)
   Lighter-than-air. Aerostation

605 General works
   Balloons
      Including free spheric balloons

609 Periodicals, societies, etc.

610 General works

612 Accidents

615 General special
   History

616 General works

617 Invention and early history to 1800
   Including the Montgolfiers

618 Special ascensions. Special aeronauts. Personal narratives
   1800-

620.A1 Collections
   620.A2-Z By name of aeronaut, A-Z
      e.g.
      620.B6 Blanchard
      620.F6 Flammarion
      620.G6 Goddard, Eugene
      620.G7 Green, Charles
      620.L8 Lunardi
      620.O7 Orlandi
      620.P5 Piccard
      620.R6 Robert brothers
         Class here ascensions of the Robert brothers (Anne-Jean Robert, 1758-1820 and
         Nicolas Louis Robert, 1761-1828)

620.S55 Silberer
620.T5 Tissandier
620.T6 Tournachon
621.A-Z Special balloons, A-Z
622 Design and construction
623 Rigging
625.A-Z Parts and equipment, A-Z
   Anchor
   Ballast
625.B3 Ballonet
   Basket
625.B4 Drag rope
625.D7 Envelope
625.E6 Net
   Instruments see TL589+
625.N4 Rip panel
625.R5 Valves
   Operations of free balloons
   Instructions and textbooks
626 Licensing of balloon pilots
627 Use of free balloons
   Cf. GV762+ Air sports and racing
   Cf. QC879.3+ Meteorology
   Cf. UG640+ Military aeronautics
630 Pilot balloons
Aeronautics. Aeronautical engineering
Aircraft (General)
Lighter-than-air. Aerostation
Balloons -- Continued

631
Sounding balloons
Cf. QC879.3+ Meteorology

632
Jumping balloons and balloon jumping

633
Toy and propaganda balloons

Captive balloons

634
General and spherical

635
Kite balloons

636
Equipment for captive balloons

637
Use of captive balloons
Use in war see UG640+

638
Hot air balloons
Early history see TL616+

639
Miscellaneous projects
Including balloon railways

Airships

650
General works

650.5
Juvenile works

651
General special
Including discussions of the possibility of dirigibles, airships vs. airplanes, controversial material, safety, etc.

654.A-Z
Special projects to 1900. By name of inventor, etc., A-Z
e.g.
654.D8
Dupuy de Lôme
654.G5
Giffard

Modern airships

655
General works
Pressure airships

656
General works
Nonrigid. Blimps

656.2
Semirigid

656.4
Metal-clad

656.6
Rigid airships

658.A-Z
Special makes, A-Z
e.g.
658.Z4
Zeppelin

659.A-Z
Individual ships, A-Z. Special voyages. Personal narratives
e.g.
659.A4
Akron
659.G7
Graf Zeppelin
659.H5
Hindenburg

660
Design and construction

660.1
Rigging

660.2
Strains and stresses

660.3
Performance. Performance calculation
Testing

660.4
General works

660.5
Model testing
Details and parts

661
General works

662.A-Z
Special, A-Z

662.B3
Ballast

662.B7
Bow caps
Aeronautics. Aeronautical engineering
   Aircraft (General)
      Lighter-than-air. Aerostation
      Airships
         Details and parts
            Special, A-Z -- Continued
               Cars
               Control compartment
               Envelope
               Frame
               Gas cells
               Keel
            Motor see TL701+
            Propellers see TL705+
               Stabilizers
               Steering apparatus
               Operation of airships
               Use of airships
      General works
      Transportation see HE9770.A4
      War
      Other
         Cf. G599 Polar exploration
   Materials and accessories for lighter-than-air craft
      General works
      Gas, hydrogen, helium. Inflation machinery
      Other special see TL699.A+
      Lighter-than-air craft industry (Technical aspects)
         Cf. HD9711.3 Lighter-than-air craft industry (Economic aspects)
      General works
      Special companies, A-Z
   Heavier-than-air craft
      Airplanes
      Periodicals see TL500+
      General works
      History
         For juvenile works see TL547
      General works
      Development of heavier-than-air craft before 1914
         Including models and gliders
         Special projects before 1914, A-Z
            e.g.
               Langley
               Maxim
      General special
      General works
      Airworthiness requirements. Specifications. Standards
      Collectors and collecting see TL506.A1+
      Design and construction
      Drafting and blueprint reading
      Manufacturing. Factory equipment and methods
         Cf. HD9711+ Airplane industry
         Cf. TL724+ Airplane industry (Technical aspects)
      Monoplane, biplane, multiplane characteristics (Comparative)
      Performance. Performance calculation. Handling characteristics
Aeronautics. Aeronautical engineering
Aircraft (General)
Heavier-than-air craft
Airplanes
General special -- Continued

671.5
Rigging, bracing, welding, etc.
Stability see TL574.S7

671.6
Structural analysis and design of air frames

671.65
Noise
Cf. TD893.6.A57 Noise control

671.7
Testing. Inspection

671.8
Model testing

671.85
Purchasing

671.9
Maintenance and repair
Conservation and restoration

Details and parts
Supporting surfaces

672
General works

673.A-Z
Special, A-Z

673.A6
Angle of incidence

673.C3
Camber

673.C35
Canard wings

673.C7
Cruciform wings

673.D4
Decalage
Delta wings see TL673.T7

673.D5
Dihedral angle

673.D8
Duct inlets

673.F6
Flaps

673.G3
Gap

673.O23
Oblique wings

673.O4
Ogee wings

673.O8
Overhang

673.P37
Parawings

673.R4
Rectangular wings

673.S4
Section
Shielding see TL673.T4

673.S6
Slotted wings

673.S7
Stagger

673.S9
Sweepback
Taper see TL673.T4

673.T4
Tips of wings. Taper. Shielding

673.T7
Triangular wings. Delta wings

673.W3
Washin and washout

674
Structural parts and details
Including ribs, spars, struts, wires, etc.

675
Folding wings
Control and stabilizing surfaces

676
General works

677.A-Z
Special, A-Z

677.A5
Ailerons

677.E6
Elevators

677.F5
Fins. Vertical stabilizer

677.R8
Rudder

677.S8
Stabilizer. Tailplane
Tailplane see TL677.S8
Control apparatus. Control stick
Aeronautics. Aeronautical engineering
Aircraft (General)
Heavier-than-air craft
Airplanes
Details and parts
Control apparatus. Control stick -- Continued
678  General works
678.5  Fly-by-wire systems
678.8  Wing-warping
Fuselage
680  General works
681.A-Z  Special, A-Z
681.A5  Air conditioning
681.C3  Cabin
681.C6  Cockpit
681.C7  Cowling
681.F5  Firewall
681.H4  Heating
681.I6  Instrument board
  Instruments see TL589+
681.L6  Longerons
681.P7  Pressurization
681.S6  Soundproofing
681.W5  Windshields
681.5  Nacelles
Landing gear. Undercarriage
682  General works
683.A-Z  Special, A-Z
683.A35  Air cushion landing systems
683.A8  Axles
683.B7  Brakes
  Landing gear for use on snow see TL683.S6
683.R4  Retractable landing gear
683.S4  Shock absorbers
683.S5  Skids. Wing and tail skids
683.S6  Skis. Landing gear for use on snow
683.T5  Tires
683.W5  Wheels
  Wing and tail skids see TL683.S5
683.3  Electric airplanes
  For electrical systems and equipment see TL690+
683.5  Hypersonic planes
Seaplanes
  Cf. TL711.S43 Seaplane flying
684  General works
684.1  Amphibians
684.2  Flying boats. Hulls
684.3  Floatplanes. Floats
684.4  Biplanes
684.5  Triplanes
684.6  Tailless airplanes
684.8  Flying automobiles
685  Convertiplanes. Vertically rising aircraft
Airplanes for special uses
Aeronautics. Aeronautical engineering
   Aircraft (General)
      Heavier-than-air craft
         Airplanes
            Airplanes for special uses -- Continued
               Light (or sport). Private planes
                  Cf. HE9795+ Economic aspects
                  Cf. TL721.4 Private flying
   685.15 Ultralight aircraft
   685.2 Mailplanes
   685.3 Military planes
      Class here works on the manufacture, testing, and restoration of military airplanes
      For markings, procurement, and use in warfare see UG1240+
   685.35 Drone aircraft
      For drone aircraft guidance and control systems see TL589.4+
      For military uses of drone aircraft see UG1242.D7
   685.4 Passenger planes
      Cf. HE9787+ Passenger service
   685.4 General works
   685.5.A-Z Special equipment, etc., A-Z
            Interior decoration
   685.5.R4 Restaurant
   685.5.S4 Seats
   685.5.S6 Sleeping accommodations
   685.6 Racing planes
   685.7 Transport planes. Cargo planes
      Cf. HE9761+ Air transportation (Economic aspects)
      e.g.
         686.A43 Airbus
         686.A77 Auster aircraft
         686.B65 Boeing Aircraft Company
         686.B68 Bréguet
         686.C27 Caproni
         686.D4 De Havilland Aircraft Company
         686.D65 Douglas Aircraft Company
         686.L6 Lockheed Aircraft Corporation
         686.R7 Rozhestvenskii
         686.S7 Stearman
         686.X53 Xi'an
         Airplane materials and accessories
            General works
            Special materials see TL699.A+
            Flying machines other than airplanes
               see TL714+
   689 Radioisotope technology and components
   690 Electrical systems and equipment
      General works
   690.5 Electromagnetic interference in aeronautics
   691.A-Z Special, A-Z
   691.A95 Auxiliary power supply
   691.B3 Batteries
   691.G4 Generators
   691.L3 Landing lights
   691.M3 Magnetic recorders
   691.N3 Navigation lights
Aeronautics. Aeronautical engineering
   Electrical systems and equipment
      Special, A-Z -- Continued
         Radio see TL693+
         Radio see TL695+
       691.S4
         Searchlights
       691.W5
         Wiring
   Communication methods and equipment
      692
         General special
            Including signaling, etc.
            General works
            693
               694.A-Z
                  Special, A-Z
                  694.A6
                     Antennas
                     Bonding see TL694.I6
                  694.C6
                     Cipher and telegraph codes
                  694.I4
                     Identification
                        Including IFF (Identification - Friend or Foe)
                     Inspection
                  694.I5
                     Interference. Bonding. Shielding
                  694.R4
                     Receiving
                        Shielding see TL694.I6
                     Telemetry
                  694.T35
                     Transmitting
                     Electronic aids to navigation. Radio. Radar. Television
                        General works
                        695
                           695.5
                              Directories of radio stations
                           696.A-Z
                              Special, A-Z
                                 Altimeter see TL696.H4
                                 Artificial satellites
                                 696.A77
                                 Beacons
                                 696.B4
                                 Beacon receiver
                                 696.B5
                                 Collision prevention
                                 696.C6
                                 Radio compass
                                 696.C7
                                 Control tower display systems
                                 696.C75
                                 Course computers. Course-line computers, etc.
                                 696.C8
                                 Direction finders
                                 696.D5
                                 Distance indicator
                                 696.D6
                                 Distance measuring equipment (Aircraft to ground station)
                                 Field and runway localizer see TL696.L3
                                 Glide path systems see TL696.L33
                                 696.D65
                                 G.N.S. (Ground-navigational systems)
                                 696.G7
                                 Ground-speed indicator
                                 696.H4
                                 Height indicator. Altimeter
                                 696.I5
                                 Inspection
                                 696.L3
                                 Landing aids
                                 696.L33
                                 Instrument landing systems
                                    Including ground controlled approach, etc.
                                    Cf. TL711.B6 Blind flying
                                    Cf. TL711.L3 Landing
                                 696.L65
                                 Loran
                                 696.M3
                                 Markers
                                 696.O5
                                 Omnirange system
                                 696.R2
                                 Radar
                                 696.R25
                                 Radar air traffic control systems
                                 696.R3
                                 Range
Aeronautics. Aeronautical engineering
Communication methods and equipment
Electronic aids to navigation. Radio. Radar. Television
Special, A-Z -- Continued

696.T3
Tacan

Miscellaneous equipment and apparatus

697.A1
General works

697.A2-Z
Special, A-Z

697.A57
Air ducts

697.B4
Bearings

697.C6
Clothing for pilots
Cf. TL697.G6 Goggles
Cf. TL697.P7 Pressure suits

697.C65
Compressors

697.F37
Fasteners

697.F5
Fire prevention
Cf. TH9445.A5 Fire hazards of hangars

697.G6
Goggles

697.H4
Heat pipes

697.H44
Helmets

697.H9
Hydraulic equipment
Ice prevention see TL557.I3

697.L3
Landing flares

697.L34
Lasers
Military equipment (General and Army) see UG1240+
Military equipment (Navy) see VG90+

697.O65
Optical equipment

697.O8
Oxygen equipment
Photographic equipment see TR1+

697.P5
Pilot ejection seats

697.P6
Pneumatic equipment

697.P7
Pressure suits

697.S3
Safety devices (General)
Cf. TL750+ Parachutes

697.S8
Stabilizing devices

Materials of construction

698
General works

699.A-Z
Special, A-Z

699.A58
Alloys

699.A6
Aluminum
Including alloys

699.A8
Asbestos

699.C44
Cellulose acetate

699.C46
Ceramic materials

699.C57
Composite materials

699.C6
Copper
Including alloys

699.D6
Dopes

699.D9
Duralumin

699.F2
Fabrics

699.F5
Finishes

699.G6
Glue

699.G85
Gums and resins, Synthetic

699.L23
Laminated materials
Laminated wood see TL699.W7

699.L3
Lautil
Aeronautics. Aeronautical engineering
Materials of construction
   Special, A-Z -- Continued
699.M32  Magnesium
699.M4   Metals
699.P6   Plastics
          Plywood see TL699.W7
699.P7   Potting compounds
          Resins, Synthetic see TL699.G85
699.R8   Rubber
699.S7   Spruce
699.S8   Steel
          Including alloys
          Timbers see TL699.W6
699.T56  Titanium
699.T8   Tubes
699.W5   Wire
699.W6   Wood. Timbers
699.W7   Wood, Laminated. Plywood
Motors. Aircraft engines
701     General works
701.1   General special
701.2   Influence of altitude
701.3   Distributed propulsion
701.4   Installation
701.5   Maintenance and repair. Inspection
701.6   Performance
701.7   Specifications. Standards
701.8   Testing
Details and parts
701.9   General
702.A-Z  Special, A-Z
702.A37  Actuators. Control systems
702.C3   Carburetors
702.C5   Connecting rods
          Cooling system see TL702.R3
702.C6   Cowlings
702.C7   Crankshafts
702.C9   Cylinders
702.F8   Fuel feeding and tanks
702.G4   Gearing
702.I5   Ignition devices. Magnetos
702.L8   Lubrication
          Magnetos see TL702.I5
702.M8   Mufflers
702.O55  Oil filters
          Opening and closing system see TL702.V3
702.P5   Pistons
702.R3   Radiators. Cooling system
702.S7   Starting devices
702.S8   Superchargers
702.V3   Valves. Opening and closing system
703.A-Z  Special makes, A-Z
          e.g.
703.D4   De Havilland
703.H5   Hispano-Suiza
Aeronautics. Aeronautical engineering
Motors. Aircraft engines -- Continued

704
General works
704.1
Atomic engines
704.2
Diesel engines
704.4
Steam engines for aircraft
704.6
Model engines
704.7
Fuel for aircraft engines
   Cf. TL711.J4 Jettisoning of fuel
   Cf. TL711.R4 Refueling

Propellers. Airscrews
705
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For clinical aspects see RC1120+
Research
858
General works
859
Equipment. Laboratories
860.A-Z
Special, A-Z
862.A-Z
Special institutions, A-Z
865
Technology transfer. Space spinoffs
Astronautics. Space travel -- Continued

867 Accidents and their prevention. Space safety
869 Specifications
870 Systems engineering
872 General works
873 Estimates. Quantities. Costs
873 Manned space flight
874 Specific aspects of space vehicles
875 see TL795
875 Design and construction
885 Reliability
900 Thermodynamics. Heat engineering
901 Fires and fire prevention
910 Structural dynamics
915 Maintenance and repair
917 Lubrication
920 Testing
940 Expandable space structures
943 Planetary quarantine
945 Sterilization
946 Contamination
950 Materials
953 Periodicals, societies, etc.
954.A-Z Special, A-Z
954.M47 Metals. Metallurgy
954.P35 Paints and coatings

Astrodynamics. Flight mechanics. Orbital mechanics
1050 Cf. QB349+ Astronomy
1050 General works
1055 Relativistic effects in astrodynamics. Relativistic rocket mechanics and dynamics
1060 Atmospheric entry phenomena
1070 General works
1070 Astronautical charts, tables, etc. Logbooks
1075 Space trajectories. Orbital transfer
1078 Data processing
1080 Artificial satellite orbits
1082 Astronautical instruments
1085 Space flight training
1088 Space flight computer simulation
1090 General works
1095 Orbital rendezvous
1096 Extravehicular activity. Space walk
1097 Space mining see TN291.3+
1097 Space vehicle propulsion systems see TL780+
Astronautics. Space travel -- Continued

1098
Space tools
Electric equipment on space vehicles

1100
General works

1102 A-Z
Special, A-Z

1102 B3
Batteries

1102 G4
Generators

1102 I57
Insulators

1102 N8
Nuclear electric powerplants
Including Project SNAP
Project SNAP see TL1102 N8

1102 T4
Thermoelectric devices

1102 W57
Wiring

1200
Optical equipment on space vehicles

Environmental engineering in space. Space environment

1489
General works

1490
Radiation shielding on space vehicles

1492
Electrostatic charging

1495
Space simulators

1496
Flow of fluids. Fluid dynamics

1499
Space debris

Life support systems. Human engineering. Human environment equipment and testing

1500
General works

1530
Cabin atmosphere

1550
Space suits

1555
Seats

1560
Food

1565
Water supply

Test and training equipment

1570
General works

1572
Space cabin simulators

1575
Weightlessness simulators

Astronics. Electronic equipment on space vehicles

3000 A1
Periodicals, societies, etc.

3000 A3-Z
General works

Telecommunication, guidance and control systems for space vehicles
Communication methods and equipment

3025
General works

3026
Deep Space Network

3028
Reentry communications. Plasma sheath effects

3035
Radio

3040
Television

Navigation systems. Guidance systems

3250
General works

3252
Inertial navigation systems

3255
Star trackers

3260
Attitude control systems

3270
Pointing systems

3280
Command control systems

3285
Space-based radar

Ground support systems, operations and equipment

4000
Periodicals, societies, etc.

4015
General works

Launching bases. Launch complexes
Including launch facilities
Astronautics. Space travel
   Ground support systems, operations and equipment
      Launching bases. Launch complexes -- Continued
4020   General works
4024   Planning. Location
      By region or country
         United States
4026   General works
4027.A-Z   By region or state, A-Z
            Under each state:
               .x   General works
               .x2A-.x2Z   Special bases. By name, A-Z
4028.A-Z   Other regions or countries, A-Z
4030   Space tracking
            Command control equipment
4040   General works
4045   Mobile facilities
4050   Ground transportation
Extraterrestrial roving vehicles see TL475+
Mining engineering. Metallurgy
   Including mineral industries
Periodicals and societies
   Arrange by language of publication
1.A1  International or polyglot
1.A2-Z  English
2  French
3  German
4  Other languages (not A-Z)
5  Congresses
Exhibitions. Museums
6.A1  General works
6.A2-Z  By region or country, A-Z
   Subarrange each country by Table T4b
7  Collected works (nonserial)
Dictionaries and encyclopedias
9  General works
10  Polyglot dictionaries
12  Directories
(13)  Yearbooks
   see TN1+
History and description
15  General works
16  Ancient
17  Medieval
   Modern
18  To 1800
19  1800-
21-127  Country divisions (Table T1a)
   Add country number in table to TN0
   Including government reports on mineral resources and economic geology
Biography
139  Collective
140.A-Z  Individual, A-Z
General works
144  Early to 1800
145  1800-
146  Elementary works
147  Popular works
148  Juvenile works
151  Pocketbooks, tables, examinations, questions, etc.
153  General special
155  Addresses, essays, lectures
160  Mining engineering as a profession
Study and teaching
165  General works
   America
171  General works
   United States
173  General works
174.A-.W  States, A-W
175.A-Z  Cities, A-Z
Canada
176  General works
177.A-Z  Special provinces, A-Z
179  Latin America (General)
Study and teaching -- Continued

Mexico
180 General works
181.A-Z Special divisions, A-Z
Central America
182 General works
183.A-Z Special countries, A-Z
West Indies
185 General works
186.A-Z Special islands, A-Z
South America
188 General works
189.A-Z Special countries, A-Z
Europe
191 General works
192.A-Z Special countries, A-Z
Asia
194 General works
195.A-Z Special countries, A-Z
Africa
197 General works
198 South Africa
199.A-Z Other countries, A-Z
Australia
201 General works
203 New Zealand
Pacific islands
204 General works
205.A-Z Special islands, A-Z
207 Metallurgical research
Special schools
United States
211 Correspondence schools
213.A-Z Other countries. By place of school, A-Z
(215-255) Mining laws and legislation
see class K
(257) Patents
see class K
260 Economic or applied geology and mineralogy
For special countries see TN21+
263 Mineral deposits. Metallic ore deposits
For special countries see TN21+
For metallic ore deposits of particular metals see TN400+
For nonmetallic mineral deposits of particular minerals see TN799.5+
263.5 Energy minerals
Cf. TJ163.13+ Power resources
264 Marine mineral resources
For mining resources see TN291.5
265 Metallic ores (General)
Geophysical surveying
269 General works
Electric logging
269.5 General works
269.55 Induction logging
Geophysical surveying -- Continued

269.7
Radioactive prospecting
Seismic prospecting

269.8
General works

269.83
Geometrical diffraction

269.84
Seismic reflection method

269.85
Seismic refraction method

269.86
Vertical seismic profiling

269.88
Vibroseis

269.883
Self-potential method

269.885
Water analysis, Sediment analysis

Prospecting

Cf. TN560 Ore sampling

270.A1
Periodicals, societies, congresses, etc.

270.A2-Z
General works

271.A-Z
Special minerals, etc., A-Z

271.A2
Rare metals, Rare earths (General)

271.A47
Aggregates

271.B3
Bauxite

271.B4
Beryllium

271.B6
Boron

271.C47
Chlorite

271.C5
Chromium

271.C53
Clay

271.C58
Coal

271.C6
Copper

271.D5
Diamonds

271.F6
Fluorspar (Fluorite)

271.G6
Gold

271.G7
Graphite

271.H43
Heavy minerals

271.I7
Iron

271.K2
Kaolin

271.K55
Kimberlite

271.L4
Lead

Magnetite see TN271.I7

271.M3
Manganese

271.M4
Mercury

271.M5
Mica

271.N5
Nickel

271.N63
Nonmetallic minerals

271.P27
Peat

271.P3
Pegmatites

271.P4
Petroleum

271.P45
Phosphates

271.P56
Platinum

271.P6
Potassium

271.P9
Pyrites

271.Q4
Quartz

271.R33
Radioactive minerals

Rare metals, rare earths see TN271.A2

271.S55
Silver

271.S88
Sulfides

271.S9
Sulfur

271.T3
Tantalum

271.T4
Thorium
Prospecting

Special minerals, etc., A-Z -- Continued

271.T5  Tin
271.T55  Titanium
271.T8  Tungsten
271.U7  Uranium
271.Z5  Zinc

Mine examination and valuation. Mine selling

272  General works
272.7  Statistical methods. Kriging
273  Mine surveying. Mine maps
Construction of mine structures, buildings, etc. see TH4561

274  Mine organization and management
  For the organization and management of special types of mines see TN400+

Practical mining operations

275.A1  Periodicals, societies, etc.
275.A2-Z  General works
276  Automation
277  Excavating and quarrying
278  Hydraulic mining
278.3  In situ processing (Mining)
  Cf. TP759 Underground coal gasification
278.5  Solution mining
279  Drilling and blasting
  For use of explosives in coal mines see TN803

281  Deep boring
281.5  Borehole mining
283  Shaft sinking
285  Tunneling, drifting
286  Longwall mining
287  Stoping
  Ground control. Ground support
288  General works
289  Timbering
289.3  Mine roof bolting
289.5  Concrete mine supports
289.8  Pillaring
290  Mine filling
291  Open working. Strip mining
  Cf. QH545.S84 Ecology
  Cf. TD195.S75 Environmental technology

Mining in extreme environments

291.24  General works
291.26  Cold weather conditions
  Outer space. Space mining
291.3  General works
291.35  Lunar mining
291.5  Underwater mining. Ocean mining
  Cf. TD195.O25 Environmental technology

292  General special
295  Safety measures
  Cf. HD7269.A+ Labor hygiene
297  Rescue work, stations, first aid, etc.
300  Mine sanitation
Ventilation of mines

301  General works
Ventilation and lighting of mines -- Continued

303 Ventilating appliances and machines
304 Stoppings
Gases in mines. Firedamp
   Cf. TN844+ Coalbed methane
305 General works
306 Gases resulting from use of explosives

Lighting of mines
306.5 General works
307 Miners' lamps. Safety lamps
309 Electric lighting of mines
   Cf. TK4399.C6 Electric lighting of coal preparation plants

Dangers and accidents in mines and quarries
   Cf. TN802+ Coal mines and mining
311 General works
312 Mine dusts
313 Explosions
315 Fires
317 Falls of roof, etc.
318 Flooding
318.5 Spoil bank failures
319 Mine subsidences
319.5 Tailings dam failures
320 Machinery
Mine drainage
321 General works
325 Mine pumps

Mine transportation, haulage and hoisting
331 General works
332 Aerial tramways
   Cf. TJ1386 General transportation
333 Underground roads
335 Mechanical haulage
336 Mine railroads, tracks, etc.
337 Electric mine locomotives and their use
338 Gasoline engines
Hoists and elevators
339 General works
341 Surface transportation
342 Mine and ore cars
343 Electrical engineering and equipment
   For electric lighting of mines see TN309
344 Mine communication systems
Mining machinery, tools, appliances, etc.
   For coal mining machinery see TN813+
   Cf. TN320 Mining accidents
345 General works
347 Catalogs
380.A-Z General mining and smelting companies, A-Z

Ore deposits and mining of particular metals
   Including mining and smelting companies
   For extraction of particular metals from their ores, see TN703-TN799
   For prospecting see TN270+
Iron ore deposits and mining
400 General works
Ore deposits and mining of particular metals
Iron ore deposits and mining -- Continued

401
   General special
402.A-Z
   Individual ores, A-Z
       Prefer classification by country
402.H4
   Hematite
402.M3
   Magnetite
402.S5
   Siderite
402.T3
   Taconite

Special countries
   America
403.A1
   General works
       United States
403.A5
   General works
403.A6-.W
   States, A-W
403.Z6A-.Z6Z
   Special companies. By name, A-Z
404.A-Z
   Other countries, A-Z
       Subarrange each country by Table T4a

   Europe
405.A1
   General works
405.A4-Z
   Special countries, A-Z
       Subarrange each country by Table T4a

   Asia
406.A1
   General works
406.A4-Z
   Special countries, A-Z
       Subarrange each country, island, etc., by Table T4a

   Africa
407.A1
   General works
407.A4-Z
   Special countries, A-Z
       Subarrange each country, island, etc., by Table T4a

   Australia, Oceania, etc.
408.A1
   General works
408.A4-Z
   Special countries or islands, A-Z
       Subarrange each country or island by Table T4a
409.A-Z
   Companies outside of United States. By name of company, A-Z
       For special companies in the United States see TN403.Z6A+

Gold and silver ore deposits and mining. Precious metals

410
   General works
411
   General special
   Special countries
       America
413.A1
   General works
       United States
413.A5
   General works
413.A6-.W
   States, A-W
413.Z6A-.Z6Z
   Special companies. By name, A-Z
414.A-Z
   Other countries, A-Z
       Subarrange each country by Table T4a

   Europe
415.A1
   General works
415.A4-Z
   Special countries, A-Z
       Subarrange each country by Table T4a

   Asia
416.A1
   General works
416.A4-Z
   Special countries, A-Z
       Subarrange each country by Table T4a
Ore deposits and mining of particular metals
Gold and silver ore deposits and mining. Precious metals
Special countries -- Continued
Africa
417.A1 General works
417.A4-Z Special countries, A-Z
    Subarrange each country by Table T4a
Australia, Oceania, etc.
418.A1 General works
418.A4-Z Special countries or islands, A-Z
    Subarrange each country or island by Table T4a
419.A-Z Companies outside of United States. By name of company, A-Z
    For special companies in the United States see TN413.Z6A+
Gold ore deposits and mining
420 General works
421 Hydraulic and placer mining
422 Other methods
    Including gold dredging
Special countries
    America
423.A1 General works
    United States
423.A5 General works
423.A6-.W States, A-W
423.Z6A-.Z6Z Special companies. By name, A-Z
424.A-Z Other countries, A-Z
    Subarrange each country by Table T4a
Europe
425.A1 General works
425.A4-Z Special countries, A-Z
    Subarrange each country by Table T4a
Asia
426.A1 General works
426.A4-Z Special countries, A-Z
    Subarrange each country by Table T4a
Africa
427.A1 General works
427.A4-Z Special countries, A-Z
    Subarrange each country by Table T4a
Australia, Oceania, etc.
428.A1 General works
428.A4-Z Special countries or islands, A-Z
    Subarrange each country or island by Table T4a
429.A-Z Companies outside of United States. By name of company, A-Z
    For special companies, United States see TN423.Z6A+
Silver ore deposits and mining
430 General works
431 General special
432.A-Z Individual ores, A-Z
    Prefer classification by country
432.S7 Stephanite
Special countries
    America
433.A1 General works
    United States
433.A5 General works
Ore deposits and mining of particular metals
Gold and silver ore deposits and mining. Precious metals
Silver ore deposits and mining
Special countries
America
United States -- Continued
433.A6-.W
States, A-W
433.Z6A-.Z6Z
Special companies. By name, A-Z
434.A-Z
Other countries, A-Z
Subarrange each country by Table T4a
Europe
435.A1
General works
435.A4-Z
Special countries, A-Z
Subarrange each country by Table T4a
Asia
436.A1
General works
436.A4-Z
Special countries, A-Z
Subarrange each country by Table T4a
Africa
437.A1
General works
437.A4-Z
Special countries, A-Z
Subarrange each country by Table T4a
Australia, Oceania, etc.
438.A1
General works
438.A4-Z
Special countries or islands, A-Z
Subarrange each country or island by Table T4a
439.A-Z
Companies outside of United States. By name of company, A-Z
For special companies in the United States see TN433.Z6A+
Copper ore deposits and mining
440
General works
441
General special
442.A-Z
Individual ores, A-Z
Prefer classification by country
442.C5
Chalcopyrite
Special countries
America
443.A1
General works
United States
443.A5
General works
States, A-W
443.Z6A-.Z6Z
Special companies. By name, A-Z
444.A-Z
Other countries, A-Z
Subarrange each country by Table T4a
Europe
445.A1
General works
445.A4-Z
Special countries, A-Z
Subarrange each country by Table T4a
Asia
446.A1
General works
446.A4-Z
Special countries, A-Z
Subarrange each country by Table T4a
Africa
447.A1
General works
447.A4-Z
Special countries, A-Z
Subarrange each country by Table T4a
Australia, Oceania, etc.
Ore deposits and mining of particular metals
Copper ore deposits and mining
Special countries
Australia, Oceania, etc. -- Continued
448.A1
General works
448.A4-Z
Special countries or islands, A-Z
Subarrange each country or island by Table T4a
449.A-Z
Companies outside of United States. By name of company, A-Z
For special companies in the United States see TN443.Z6A+

Lead ore deposits and mining
450
General works
451
General special
452.A-Z
Individual ores, A-Z
Prefer classification by country
452.C4
Cerussite
452.G3
Galena
Special countries
America
453.A1
General works
United States
453.A5
General works
453.A6-.W
States, A-W
453.Z6A-.Z6Z
Special companies. By name, A-Z
454.A-Z
Other countries, A-Z
Subarrange each country by Table T4a
Europe
455.A1
General works
455.A4-Z
Special countries, A-Z
Subarrange each country by Table T4a
Asia
456.A1
General works
456.A4-Z
Special countries, A-Z
Subarrange each country by Table T4a
Africa
457.A1
General works
457.A4-Z
Special countries, A-Z
Subarrange each country by Table T4a
Australia, Oceania, etc.
458.A1
General works
458.A4-Z
Special countries or islands, A-Z
Subarrange each country or island by Table T4a
459.A-Z
Companies outside of United States. By name of company, A-Z
For special companies in the United States see TN453.Z6A+

Mercury ore deposits and mining
460
General works
461
General special
462.A-Z
Individual ores, A-Z
Prefer classification by country
462.C5
Cinnabar
Special countries
America
463.A1
General works
United States
463.A5
General works
463.A6-.W
States, A-W
463.Z6A-.Z6Z
Special companies. By name, A-Z
Ore deposits and mining of particular metals
Mercury ore deposits and mining
Special countries
America -- Continued
Other countries, A-Z
Subarrange each country by Table T4a
Europe
465.A1
General works
465.A4-Z
Special countries, A-Z
Subarrange each country by Table T4a
Asia
466.A1
General works
466.A4-Z
Special countries, A-Z
Subarrange each country by Table T4a
Africa
467.A1
General works
467.A4-Z
Special countries, A-Z
Subarrange each country by Table T4a
Australia, Oceania, etc.
468.A1
General works
468.A4-Z
Special countries or islands, A-Z
Subarrange each country by Table T4a
469.A-Z
Companies outside of United States. By name of company, A-Z
For special companies, United States see TN463.Z6A+
Tin ore deposits and mining
470
General works
471
General special
472.A-Z
Individual ores, A-Z
Prefer classification by country
472.C3
Cassiterite
Special countries
America
473.A1
General works
United States
473.A5
General works
States, A-W
473.Z6A-.Z6Z
Special companies. By name, A-Z
474.A-Z
Other countries, A-Z
Subarrange each country by Table T4a
Europe
475.A1
General works
475.A4-Z
Other countries, A-Z
Subarrange each country by Table T4a
Asia
476.A1
General works
476.A4-Z
Other countries, A-Z
Subarrange each country by Table T4a
Africa
477.A1
General works
477.A4-Z
Other countries, A-Z
Subarrange each country by Table T4a
Australia, Oceania, etc.
478.A1
General works
478.A4-Z
Special countries or islands, A-Z
Subarrange each country or island by Table T4a
Ore deposits and mining of particular metals
  Tin ore deposits and mining
    Special countries -- Continued
  479.A-Z
    Companies outside of United States. By name of company, A-Z
    For special companies in the United States see TN473.Z6A+

Zinc ore deposits and mining
  480
    General works
  481
    General special
  482.A-Z
    Individual ores, A-Z
      Prefer classification by country
  482.S6
    Sphalerite
    Special countries
    America
  483.A1
    General works
    United States
  483.A5
    General works
  483.A6-.W
    States, A-W
  483.Z6A-.Z6Z
    Special companies. By name, A-Z
  484.A-Z
    Other countries, A-Z
      Subarrange each country by Table T4a

Europe
  485.A1
    General works
  485.A4-Z
    Other countries, A-Z
      Subarrange each country by Table T4a

Asia
  486.A1
    General works
  486.A4-Z
    Other countries, A-Z
      Subarrange each country by Table T4a

Africa
  487.A1
    General works
  487.A4-Z
    Other countries, A-Z
      Subarrange each country by Table T4a

Australia, Oceania, etc.
  488.A1
    General works
  488.A4-Z
    Special countries or islands, A-Z
      Subarrange each country or island by Table T4a
  489.A-Z
    Companies outside of United States. By name of company, A-Z
    For special companies, United States see TN483.Z6A+

490.A-Z
  Other metals, A-Z
    Class individual ores of particular metals with the metal
  490.A2
    Rare metals. Rare earths (General)
  490.A3
    Radioactive minerals
  490.A5
    Aluminum. Bauxite
  490.A6
    Antimony
  490.A8
    Arsenic
  490.B2
    Barium
    Bauxite see TN490.A5
  490.B4
    Beryllium
  490.B6
    Bismuth
  490.C2
    Cadmium
  490.C4
    Chromium
  490.C6
    Cobalt
  490.G4
    Germanium
  490.I6
    Indium
  490.L5
    Lithium
  490.M2
    Magnesium
Ore deposits and mining of particular metals

Other metals, A-Z -- Continued

490.M3  Manganese
490.M7  Molybdenum
490.N6  Nickel
490.N65  Niobium
490.P7  Platinum and platinum group
490.R3  Radium

Rare earths and metals see TN490.A2
490.R48  Rhenium
490.R8  Rubidium
490.S4  Scandium
490.S8  Strontium
490.T2  Tantalum
490.T5  Tellurium
490.T55  Thorium
490.T6  Titanium
490.T9  Tungsten (Wolfram)
490.U7  Uranium

Cf. TN490.A3 Radioactive minerals
490.V2  Vanadium
490.Z5  Zirconium
495.A-Z  Metallic compounds, A-Z
495.S9  Sulfides

Ore dressing and milling

For specific ores prefer classification by ore; see TN538.A+

496  Periodicals. Societies. Serials
497  Congresses
500  General works
501  Addresses, essays, lectures
502  Dictionaries and encyclopedias
504  Plants and equipment

Milling machinery

Cf. TJ1345 Mechanical engineering
505  General works
507  Trade catalogs
510  Crushing. Rolls, stamps, breakers
515  Screening and sorting. Screens, classifiers

Concentrating. Jigs, tables, vanners
520  General works
523  Flotation
525  Slime treatment
530  Magnetic separation
531  Dielectric separation
535  General special

Including dewatering
538.A-Z  Individual ores, A-Z
538.A55  Aluminum
538.A57  Antimony ores
538.C57  Chromium
538.C66  Copper
538.C9  Cyanite
538.G64  Gold
538.I7  Iron
538.M35  Manganese
538.N6  Nonferrous metals
Ore deposits and mining of particular metals
Ore dressing and milling
  Individual ores, A-Z -- Continued
  538.P43  Phosphates
  538.P53  Platinum
  538.P6  Potassium
  538.S84  Sulfides
  538.T55  Tin
  538.T57  Titanium
  538.T74  Trolite
  538.U7  Uranium

Assaying
  Cf. HG325+ Money
  550  General works
  555  General special
  560  Sampling of ores
    Cf. TN272+ Mine examination and valuation
  565  Metallurgical analysis
    Metallurgical and assay laboratories
      General works
  570  571.A-Z  Special laboratories. By place, A-Z
  575  Assaying apparatus
    Including the analysis of ores
      580.C5  Chromium
      580.C64  Copper
      580.G6  Gold and gold ores
      580.H43  Heavy metals
      580.I8  Iron and iron ores
      580.M3  Manganese
      580.M4  Mercury
      580.N6  Nonferrous metals
      580.P7  Platinum
      580.P74  Precious metals
      580.R48  Rhenium
      580.S5  Silver
      580.T5  Tin ores
      580.T73  Trace elements

Metallurgy
  Cf. TA459+ Properties of metals
  Cf. TS200+ Metal manufactures
  600  Periodicals, societies, etc.
  605  Congresses
  607  Collected works (nonserial)
  609  Dictionaries and encyclopedias
    Communication of metallurgical information
  610  General works
  610.5  Metallurgical literature
  612  Directories

History
  615  General works
  616  Ancient
  617  Medieval
  618  Modern
  619  19th century
  620  20th century
Metallurgy -- Continued

Special countries

621 America
623 United States
624.A-.W States, A-W

Canada
626 General works
627.A-Z Special divisions, A-Z
629 Latin America (General)

Mexico
630 General works
631.A-Z Special divisions, A-Z

Central America
632 General works
633.A-Z Special countries, A-Z

West Indies
635 General works
636.A-Z Special islands, A-Z

South America
638 General works
639.A-Z Special countries, A-Z

Europe
641 General works
642.A-Z Special countries, A-Z

Eurasia
643 Asia

Africa
644 General works
645.A-Z Special countries, A-Z

South Africa
647 General works
648 Australia

649.A-Z Special countries, A-Z

Pacific islands
651 General works
652.A-Z By state, A-Z

General works
654 Special islands, A-Z

Biography see TN139+

General works
664 Early to 1800
665 1800-
667 Popular works. Juvenile works
669 Laboratory manuals

Pocketbooks, tables, etc.
671 Heat treatment of metals
672 General special
675 Addresses, essays, lectures

Study and teaching
675.3 Cf. TN207 Metallurgical research

675.4 Information services

Metallurgical plants
675.5 General works

675.7 Management
Metallurgy

Metallurgical plants -- Continued
Accidents and their prevention. Safety measures
  Cf. HD7269.A+ Labor hygiene

676.A1
  General works
676.A3
  United States
676.A5-Z
  Other countries, A-Z
Special equipment
  Metallurgical furnaces

677
  General works
677.5
  Refractory materials
677.7
  Fuel
678
  Plasma jets
678.5
  Reagents

Electrometallurgy
  For applications to special metals, see the metal, e.g. TN706, Iron and steel
  Cf. TS670+ Electroplating

681
  Periodicals, societies, etc.
683
  Congresses
685
  General works
686
  General special
686.5.A-Z
  Special processes, A-Z
686.5.E4
  Electroslag process
686.5.V3
  Vacuum metallurgy
686.5.Z6
  Zone melting
    Cf. TP156.Z6 Chemical engineering

687
  Special equipment
    Including electric furnaces

Hydrometallurgy

688
  General works
688.3.A-Z
  Special processes, A-Z
688.3.B33
  Biotechnology
    Including bacterial leaching
688.3.H4
  Heap leaching
688.3.I65
  Ion exchange process
688.5
  Pyrometallurgy

Metallography. Physical metallurgy
  Cf. QC176+ Solid state physics
  Cf. QD478 Solid state chemistry
  Cf. QD506+ Surface chemistry
  Cf. QD901+ Crystallography
  Cf. TA483+ General properties of alloys
  Cf. TS650 Manufacture of alloys

689
  Periodicals, societies, etc.
689.2
  Congresses
689.4
  Dictionaries and encyclopedias
690
  General works
690.2
  Addresses, essays, lectures
690.4
  Handbooks, manuals, etc.
  Study and teaching
690.6
  General works
690.65
  Fieldwork
690.7
  Metallographic specimens
690.8
  Recrystallization
693.A-Z
  Special metals, A-Z
    Including alloys
Metallurgy

Metallography. Physical metallurgy

Special metals, A-Z -- Continued

693.A4  Alkali metals
693.A5  Aluminum
693.A54  Americium
693.B4  Beryllium
693.B5  Bismuth
693.B6  Boron alloys
693.C5  Chromium
693.C8  Cobalt
693.C9  Copper (Bronze)
693.F7  Friction metals
693.G6  Gold
693.H4  Heat resistant metals
693.I7  Iron and steel
693.L4  Lead

Light metals and alloys see TN693.N6

693.M3  Magnesium
693.M35  Manganese
693.M38  Metallic composites
693.M4  Metallic glasses
693.R3  Rare earth metal alloys

Including Mischmetal

Refractory transition metal compounds see TN693.T7

693.R45  Rhenium
693.S5  Silver
693.S9  Superconductors
693.T34  Tantalum
693.T4  Tellurium
693.T45  Thorium
693.T5  Titanium
693.T7  Transition metal compounds

Including refractory transition metal compounds

693.T94  Tungsten
693.U7  Uranium
693.V3  Vanadium
693.Z5  Zirconium

Powder metallurgy

Cf. TS245 Manufactures

695  General works
697.A-Z  Special metals, A-Z
697.A47  Aluminum
697.C65  Copper
697.H4  Heat resistant alloys
697.I7  Iron and steel
697.T5  Titanium
697.Z54  Zinc
698  Mechanical alloying
Metallurgy -- Continued

700
Metallurgy of heat resistant alloys
Metallurgy of ferrous metals
Iron and steel
  Cf. TA464+ Properties
  Cf. TS300+ Manufactures
  Periodicals and societies see TS300

701.5
Congress

702
Dictionaries and encyclopedias
Directories see TS301

703
History

704.A-Z
Special countries, A-Z
  Subarrange each country by Table T4a

705
General works

706
Electric processes

706.5
Pyrometallurgy

707
General special
  Including slag

708
Patents

709
Alpha iron
Cast iron. Pig iron

710
General works
Blast furnaces

713
General works
Hot blast. Dry-air blast
  Cf. TS231 Cupola furnaces

718
Utilization of waste heat, gas, etc.

719
Malleable cast iron
Ductile iron

719.5
Wrought iron
  General works

720
Direct processes

723
Refinery processes. Puddling and puddling furnaces

727
Sponge iron
Steel

730
General works

731
General special
  Including temperature measurements

732
Popular works. Juvenile works
Special processes

733
Direct processes

734
Cementation processes

735
Crucible process
Bessemer process

736
General works

737
Acid Bessemer process

738
Basic Bessemer process

740
Open hearth or Siemens process
General works

741
Acid open hearth process

742
Basic open hearth process

745
Electric furnace processes

746
Ladle metallurgy

747
Oxygen steelmaking

750
Other processes. Continuous ingot casting, etc.
Heat treatment
Metallurgy
Metallurgy of ferrous metals
Iron and steel
Steel
Heat treatment -- Continued
751 General works
752.A-Z Special processes, A-Z
752.A5 Annealing
752.C3 Case hardening. Nitriding
752.C5 Chromizing
752.F4 Flame hardening
752.15 Induction hardening
Nitriding see TN752.C3
752.Q4 Quenching
752.S8 Surface hardening
752.T4 Tempering
752.T54 Thermomechanical treatment
755.A-Z Special plants and works, A-Z
Iron and steel alloys
Class here production only
For properties, strength, etc. see TA464+
For microscopic examination see TN689+
756 General works
757.A-Z Special alloys, A-Z
Aluminum see TN775
757.B6 Boron steel
757.C35 Calcium steel
757.C48 Chrome-manganese steel
757.C49 Chrome-nickel steel
757.C5 Chrome steel. Stainless steel
757.F25 Ferrochromium
757.F3 Ferromanganese
757.F33 Ferronickel
757.F4 Ferrosilicon
757.M3 Manganese steel
757.M7 Molybdenum steel
757.N5 Nickel steel
757.N6 Nickel chromium alloys
757.N66 Nitrogen
757.S45 Semikilled steel
757.S7 Spiegel iron
Stainless steel see TN757.C5
757.T5 Titanium steel
757.T9 Tungsten steel
757.U7 Uranium steel
757.V3 Vanadium steel
Metallurgy of nonferrous metals
758 General works
758.3 Heat treatment
758.4.A-Z Individual plants and works, A-Z
Precious metals
759 General works
Gold and silver
760 General works
761 General special
761.5 Popular works
Metallurgy
  Metallurgy of nonferrous metals
    Precious metals
      Gold and silver -- Continued
        Juvenile works
      Milling
        Special processes
        Amalgamation
      Chlorination
    Cyanide process
  Electric processes
  Other special processes
  Silver and lead
    For lead alone see TN785

Light metals
  General works
  Aluminum and its alloys
  Copper
  Lead
  Mercury
  Tin
  Zinc

Minor metals
  Collectively
  Special metals, A-Z
  Antimony
  Beryllium
  Bismuth
  Cadmium
  Calcium
  Cesium
  Chromium
  Cobalt
  Gallium
  Germanium
  Indium
  Lithium
  Magnesium
  Manganese
  Molybdenum
  Neodymium
  Neptunium
  Nickel
  Niobium
  Palladium
  Platinum
  Plutonium
  Rare earth metal alloys
  Rhenium
  Rhodium
  Selenium see TN948.S4
  Tantalum
  Thorium
  Titanium
  Tungsten
  Uranium
Metallurgy
   Metallurgy of nonferrous metals
      Minor metals
         Special metals, A-Z -- Continued
      799.V3
         Vanadium
      799.Z5
         Zirconium

Nonmetallic minerals
   Including deposits and associated mining industries
   For prospecting see TN270+
   799.5
      General works
      By region or country
         United States
      799.6.A1
         General works
      799.6.A2-Z
         By region or state, A-Z
      799.7.A-Z
         Other regions or countries, A-Z
         Subarrange each country by Table T4a

Coal
   Periodicals, societies, etc.
   799.9
   Dictionaries and encyclopedias
   799.95
   General works
   800
   Elementary and popular works
   Mines and mining
      For practical mining operations see TN275+
      For safety measures see TN295
      For ventilation see TN301+
      For lighting see TN306.5+
   802
      General works
   803
      General special
         Including use of explosives
         Special countries
            Including geology of coal deposits in the region or country
            America
      805.A1
         Periodicals, societies, etc.
      805.A2
         General works
      805.A3
         United States
      805.A4
         Periodicals, societies, etc.
      805.A5
         Directories
      805.A6-.W
         General works
      805.Z6A-.Z6Z
         Individual states, A-W
      806.A-Z
         Other countries, A-Z
         Subarrange each country by Table T4a
   807.A-Z
      American companies outside of United States, A-Z
         Europe
      808.A1
         General works
      808.A4-.Z5
         Special countries, A-Z
         Subarrange each country by Table T4a
      808.Z6A-.Z6Z
         Special companies. By name, -Z
         Asia
      809.A1
         General works
      809.A4-.Z5
         Special countries, A-Z
         Subarrange each country by Table T4a
      809.Z6A-.Z6Z
         Special companies. By name, A-Z
         Africa
      810.A1
         General works
Nonmetallic minerals
Coal
Mines and mining
Special countries
Africa -- Continued
810.A4-.Z5
Special countries, A-Z
Subarrange each country by Table T4a
810.Z6A-.Z6Z
Special companies. By name, A-Z
Australia, Oceania, etc.
811.A1
General works
811.A4-.Z5
Special countries, A-Z
Subarrange each country by Table T4a
811.Z6A-.Z6Z
Special companies. By name, A-Z
812
Arctic regions and Antarctica
Including Spitzbergen, Bear Island, etc.
Coal mining machinery, etc.
813
General works
814
Catalogs
815
Coal-handling machinery for colliery purposes
For machinery for handling coal commercially see TJ1405
Coal preparation, washing, screening, etc.
816.A1
Periodicals, societies, etc.
816.A3-Z
General works
817
Coal storage, weathering, etc.
Underground gasification see TP759
Anthracite
820
General works
823.A-Z
Special countries, A-Z
Bituminous coal
825
General works
Special countries see TN805+
827
Cannel coal
Subbituminous coal
828
General works
830.A-Z
Special countries, A-Z
Lignite. Brown coal
831
General works
834.A-Z
Special countries, A-Z
Peat
837
General works
840.A-Z
Special countries, A-Z
841
Peat machinery
842
Peat straw, peat mull, etc.
Coalbed methane
Cf. TN305+ Mine safety
Cf. TP761.M4 Gas industry
844
Periodicals, societies, etc.
844.5
General works
By region or country
United States
844.6
General works
844.62.A-Z
By region or state, A-Z
844.7.A-Z
Other regions or countries, A-Z
Other natural carbons and hydrocarbons
845
Graphite
847
Schungite
Nonmetallic minerals

Other natural carbons and hydrocarbons -- Continued

850
Bitumen
851
Sapropel
853
Asphalt

Including uses
Ozokerite, ceresin, natural paraffin

Cf. TP695 Chemical technology
Oil shales
Cf. TP699 Chemical technology
858.A1
Periodicals, societies, etc.
858.A2-Z
General works
859.A-Z
Special countries, A-Z

Subarrange each country by Table T4a
 Petroleum. Petroleum engineering

Cf. HD9560+ Petroleum trade
Cf. TP690+ Refining, etc.
860
Periodicals, societies, etc.
(862)
Yearbooks

see TN860
863
Congress
864
Collected works (nonserial)
865
Dictionaries and encyclopedias
867
Directories

Biography
869
Collective
869.2.A-Z
Individual, A-Z
870
General works
870.3
Juvenile works

Origin and composition. Petroleum geology

For petroleum geology of specific regions or countries see TN872+
For analysis and testing see TP691
870.5
General works
870.515
Brines. Groundwater. Water chemistry
870.52
Capillarity
870.53
Mathematical modelling
870.54
Oil sands
870.55
Remote sensing
870.56
Rock mechanics
870.57
Traps. Reservoirs

Prospecting see TN271.P4
871
General special

Including well testing, storage, diffusion, etc.
871.15
Addresses, essays, lectures
871.18
Reservoir oil pressure

Well drilling
871.2
General works
871.215
Blowouts. Accidents and their prevention. Safety measures
871.22
Casing
871.23
Directional drilling
871.24
Formation damage
871.245
Gas lift
871.25
Horizontal well drilling
871.255
Hydraulic fracturing

Including hydraulic fracturing for natural gas

871.26
Managed pressure drilling
Nonmetallic minerals
Other natural carbons and hydrocarbons
Petroleum. Petroleum engineering
Well drilling -- Continued

871.27 Muds. Fluids
871.3 Offshore well drilling
871.33 Underbalanced drilling
871.35 Well logging
871.37 Secondary recovery of oil
871.4 Mobile offshore structures
871.5 Petroleum and gas well supplies
    Including catalogs
Special countries
    Including geology of petroleum deposits in the region or country
America
872.A2 General works
    By region or country
    United States
872.A3-.A34 Periodicals, societies, congresses, etc.
    Documents
872.A35-.A44 Serials
872.A45 Monographs
    Arrange by date
    Directories see TN867
872.A5 General works
872.A6-.W By state, A-W
872.Z6A-.Z6Z Special companies. By name, A-Z
873.A-Z Other regions or countries, A-Z
    Subarrange each country by Table T4a

Europe
874.A1 General works
874.A4-Z Special countries, A-Z
    Subarrange each country by Table T4a
875 Caspian, Baku, etc.
Asia
876.A1 General works
876.A4-Z Special countries, A-Z
    Subarrange each country by Table T4a
Africa
877.A1 General works
877.A4-Z Special countries, A-Z
    Subarrange each country by Table T4a
878.A1 General works
878.A6-Z Special countries or islands, A-Z
    Subarrange each country or island by Table T4a
878.2 Arctic regions
    Including Greenland
879 Oil companies outside of United States
Petroleum pipelines
    Cf. TH9445.P38 Fire prevention and extinction
879.5 General works
879.52 Control
879.53 Design and construction
879.54 Equipment and supplies
879.55 Failure. Accidents. Leaks. Reliability
Nonmetallic minerals
Other natural carbons and hydrocarbons
Petroleum. Petroleum engineering
Petroleum pipelines -- Continued

879.555  Flow assurance
879.56   Fluid dynamics
879.57   Insulation. Heat transmission
879.58   Maintenance and repair
879.59   Safety measures
879.6    Welding

Natural gas
880.A1   Periodicals, societies, etc.
880.A3-Z General works
880.2    Gas well drilling
          For hydraulic fracturing see TN871.255
880.5    Natural gas pipelines
          Natural gas storage see TP756
          Underground natural gas storage see TP756.5

United States
881.A1   General works
881.A2-.W Special states, A-W
882.A-Z   Other countries, A-Z
          Subarrange each country by Table T4a

883    Helium in natural gas
884    Hydrates in natural gas
885    Amber, fossil gums, etc.
890    Sulfur

Alkalies
          Cf. TN919 Potassium salts
          Cf. TP222+ Chemical technology

895    General works
       United States
896.A1   General works
896.A6-.W States, A-W
897.A-Z   Other countries, A-Z
          Subarrange each country by Table T4a

Sodium salts. Soda deposits
899    General works
       Salt
          Mining and manufacture
          General works
          By region or country
          United States

902.A1   General works
902.A2-.W By state, A-W
903.A-Z   Other regions or countries, A-Z
          Subarrange each country by Table T4a

Manufacture
905    Sea water
907    Saline springs
909    Company prospectuses, etc.
          Sodium sulfate see TN948.S7
911    Nitrates. Chile saltpeter
          Cf. TP237+ Chemical technology

Phosphates
913    General works
Nonmetallic minerals
Phosphates -- Continued

914.A-Z
   Special countries, A-Z
      Subarrange each country by Table T4a

917
   Borax and other borates

919
   Potassium salts. Potash-bearing rocks and plants. Kelp
      Cf. TP245.P8 Chemical technology

   Mineral waters
      Cf. GB1198+ Hot springs
      Cf. RA794 Health resorts, spas, etc.
      Cf. TP625 Artificial mineral waters

923
   General works
   United States
   925
      General works
   926.A-.W
      Special states, A-W
   927.A-Z
      Other American countries, A-Z
         Subarrange each country by Table T4a

Europe
928.A1
   General works
928.A3-Z
   By country, island, or region, A-Z
      Subarrange each country or island by Table T4a

Asia
929.1.A1
   General works
929.1.A3-Z
   By country, island, or region, A-Z
      Subarrange each country or island by Table T4a

Africa
929.3.A1
   General works
929.3.A3-Z
   By country, island, or region, A-Z
      Subarrange each country or island by Table T4a

Australia
929.5.A1
   General works
929.5.A3-Z
   Local, A-Z
   New Zealand
929.6.A1
   General works
929.6.A3-Z
   Local, A-Z
   Pacific islands
929.7.A1
   General works
929.7.A3-Z
   By country, island, or region, A-Z
      Subarrange each country or island by Table T4a

930
   Asbestos
933
   Mica
936
   Abrasives. Emery, corundum, etc.
939
   Sand and gravel
   Clay
      Cf. TP785+ Ceramic industries

941
   General works
942
   United States
943.A-Z
   Other countries, A-Z
      Subarrange each country by Table T4a

Structural materials in general see TN950+

945
   Cement materials
946
   Gypsum
      Cf. TP888 Plaster and other gypsum products

948.A-Z
   Other specific nonmetallic minerals, A-Z
      Including minerals from which metals are not normally extracted
948.A5
   Allanite
Nonmetallic minerals
Other specific nonmetallic minerals, A-Z -- Continued

948.A6       Alunite
948.A65      Anhydrite
948.A7       Apatite
948.A76      Argillite
948.B18      Barite
948.B4       Bentonite
948.B45      Beryl
Calcite see TN967
948.C3       Carbonatites
948.C34      Carnallite
948.C5       Chalk. Whiting
948.C55      Chiolite
948.C6       Clinoptilolite
948.C72      Conglomerate
948.C73      Coprolites
948.C75      Cordierite
948.C8       Corundum
              see TN936
948.C95      Cyanite
948.D49      Diaspore
948.D5       Diatomaceous earth
948.D8       Dumortierite
948.F3       Feldspar
948.F45      Fillers
948.F5       Flint
948.F6       Fluorspar
948.F9       Fullers' earth
Garnet see TN997.G3
948.H3       Halloysite
948.L3       Laterite
948.L46      Lime
948.M2       Magnesite
948.M3       Marl
948.M5       Meerschaum
948.M7       Monazite
948.M72      Montmorillonite
Mordenite see TN948.Z4
948.M8       Mullite
948.M85      Muscovite
948.N37      Nepheline syenite
948.N4       Nephelite (Nepheline)
948.O2       Ocher
948.P25      Palygorskite
948.P38      Pegmatites
948.P4       Perlite
948.P5       Pigments
948.P74      Pumice
948.P8       Pyrite
948.P82      Pyrochlore
948.P85      Pyrophyllite
948.Q3       Quartz
948.R45      Rhodonite
948.S24      Saproplites
948.S4       Selenium
Nonmetallic minerals
   Other specific nonmetallic minerals, A-Z -- Continued

948.S45  Serpentine
948.S5   Shale
   Cf. TN858+ Oil shales
948.S6   Silica
948.S63  Sillimanite
948.S7   Sodium sulfate
948.S9   Syenite
948.T2   Talc and soapstone
948.T74  Tripoli
948.T76  Trona
948.T9   Tysonite
948.V4   Vermiculite
   Whiting see TN948.C5
948.W6   Wollastonite
948.Z4   Zeolites. Mordenite

Building and ornamental stones
   Cf. TA426+ General properties, testing, etc.
   Cf. TA670+ Stonemasonry and stonecutting

950.A1  Periodicals, societies, etc.
950.A5-Z General works
   Special countries
      America
         General works
            United States
951.A5   General works
951.A6-.W Special states, A-W
952.A-Z   Other American countries, A-Z
   Europe
953.A1   General works
953.A3-Z  Special countries, A-Z
   Asia
954.A1   General works
954.A3-Z  Special countries, A-Z
   Africa
955.A1   General works
955.A3-Z  Special countries, A-Z
   Australia. Oceania
956.A1   General works
956.A3-Z  Special countries, A-Z

Special stones
957   Sandstone
958   Slate
   Soapstone see TN948.T2
967   Limestone. Marble
970   Granite
973   Other building stones
   Stones for roadmaking see TE200+

Ornamental stones. Gems
980   General works
   Special countries
      America
981.A1  General works
         United States
981.A5   General works
Building and ornamental stones
Ornamental stones, Gems
Special countries
America
United States -- Continued

981.A6-.W
Special states, A-W
982.A-Z
Other American countries, A-Z

Europe
983.A1
General works
983.A3-Z
Special countries, A-Z

Asia
984.A1
General works
984.A3-Z
Special countries, A-Z

Africa
985.A1
General works
985.A3-Z
Special countries, A-Z

Australia. Oceania
986.A1
General works
986.A3-Z
Special countries, A-Z

989.A-Z
Special ornamental stones (other than gems), A-Z
989.A3
Alabaster
989.B55
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  Special, A-Z -- Continued
  248.65.P64  Polysaccharides. Carbohydrates
  248.65.P76  Proteins
  248.65.S55  Single cell lipids
  248.65.S56  Single cell proteins
  248.65.V32  Vaccines
  248.65.V57  Vitamins
  249  Industrial radiochemistry. Industrial radiation chemistry
  249.5  Industrial photochemistry
  Industrial electrochemistry
    Cf. QD115+ Electrochemical analysis
    Cf. QD273 Electrochemistry of organic compounds
    Cf. QD551+ Chemistry
    Cf. TK4661 Electric furnaces
  250  Periodicals, societies, etc.
  251  Directories
  252  History
  253.A-Z  Special countries, A-Z
  255  General works
  256  General special
  257  Addresses, essays, lectures
  258  Study and teaching
  Special applications
    Electrolysis of water
    Electroplating see TS670+
    Electrotyping see Z252
    Metallurgical processes (General) see TN681+
  261.A-Z  Other special, A-Z
  261.A1  Alloys
  261.B7  Brine
    Calcium carbide see TP770
  261.C3  Carborundum
  261.C5  Chlorates
  261.C67  Corundum
  261.G7  Graphite
  261.H9  Hydrogen
  261.N7  Nitrogen
  261.O9  Oxygen
  261.P48  Phosphorus
  Water in chemical industry
  262  General works
  263  Water softening
    Cf. TD466 Municipal water supply
    Cf. TJ379 Feedwater purification
  Chemistry of fire and fire prevention
    Cf. QD516 Heat of formation, combustion, flame, explosion
    Cf. TH9446.3+ Flammability of materials
  265  General works
  266  Fire extinguishing agents
    Cf. TH9338 Chemical systems of fire extinction
  266.5  Fireproofing agents
  267  Fireproofing of fabrics
  Explosives and pyrotechnics
Explosives and pyrotechnics -- Continued

267.5  General works
268  History
Special topics see TP272+
268.5.A-Z  Biography, A-Z
e.g.
268.5.N7  Nobel
269  Early works to 1800
Explosives
    Cf. UF860+ Military explosives and pyrotechnics
270.A1  Periodicals, societies, etc.
270.A2  Dictionaries and encyclopedias
270.A3-Z  General works
270.5  Popular works. Juvenile works
271  Study, testing, etc.
Special explosives
    Gunpowder
    Smokeless powder
273  Nitrocellulose compounds. Guncotton
285  Nitroglycerine compounds. Dynamite
290.A-Z  Other, A-Z
290.A5  Ammonium nitrate fuel oil
290.B7  Bobbinite
290.C7  Compensating powder
290.C8  Cordite
290.C9  Cyclonite see TP290.R39
290.C9  Cyclotetramethylene-tetranitramine
290.H9  Hydrocarbons
    Cf. TP248.H9 Organic preparations
290.L5  Liquid air or oxygen
290.L8  Lyddite. Melanite
290.N53  Nitrogen compounds
290.P5  Peroxides
290.R39  RDX (Cyclonite)
290.T8  Trinitrotoluene (TNT)
290.V5  Vigorit
291  Additives
293  Fuses, caps, fulminates, etc.
295  Storage and handling. Powder magazines. Thaw houses
297.A-Z  Regulation, inspection, etc. By country, A-Z
(299)  Laws relating to explosives
    see class K
Pyrotechnics
300  General works
301  Catalogs of fireworks, etc.
310  Matches
Fuel
    Cf. TH7201+ Heating of buildings
    Cf. TJ163.13+ Power resources
315  Periodicals, societies, congresses, etc.
316  Dictionaries and encyclopedias
317.A-Z  Special countries, A-Z
318  General works
318.3  Juvenile works
Fuel -- Continued

319  General special
      Including fuel for motor transport
      Cf. TP343+ Liquid and gaseous fuel

320  Minor works, pamphlets, etc.
320.5  Tables, calculations, etc.
      Analysis. Testing
      Cf. TP691 Oil inspection, analysis, testing, standards, etc.
      Cf. TP754 Analysis, tests, etc. in the gas industry

321  General works

322  Fuel testing plants

323  Briquets and briquetting (General)
      For special kinds see the subject
      Cf. TP327 Coal briquets
      Cf. TP340 Peat

324  Wood
      Coal
      Cf. TP352 Coal liquefaction

325  General works
326.A-Z  By region or country, A-Z

327  Coal briquets

328  Pulverized coal

329  Lignite

331  Charcoal

336  Coke. Carbonization of coal

339  Biomass
      Cf. TP324 Wood

340  Peat
      Liquid and gaseous fuel
      Cf. TL704.7 Fuel for aircraft engines
      Cf. TP750.2+ Gas industry

343  General works

345.A1  Periodicals, societies, congresses, etc.
345.A2-Z  General works

350  Natural gas
      Cf. TP359.M4 Methane

352  Coal liquefaction

355  Petroleum
      Including synthetic petroleum

358  Alcohols and alcohol mixtures. Ethanol. Gasohol
      Including butanol, methanol, etc.
359.A-Z  Other special, A-Z
359.B4  Benzene (Benzol)
359.B46  Biodiesel fuels
359.B48  Biogas
359.C63  Coconut oil
      Diesel fuels, Oxygenated see TP359.O98

359.H8  Hydrogen

359.K47  Kerosene as fuel
359.L5  Liquefied petroleum gas
359.M4  Methane
359.O98  Oxygenated diesel fuels
359.V44  Vegetable oils

360  Other
      Including colloidal fuel, mud fuel, artificial fuel
361  Inflammable liquids and gases
    Including production, storage, handling and transportation
    Cf. TH9446.I475 Fire prevention
    Cf. TH9446.I5 Fire prevention

362  Antifreeze solutions

363  Heating, drying, cooling, evaporating
    Cf. TP159.D7 Drying agents
    Cf. TP159.H4 Heat transfer media

365  By-products of combustion
    Food processing and manufacture
    For beverages see TP500+
    Cf. TX341+ Nutrition
    Cf. TX641.2+ Cooking

368  Periodicals. Societies. Congresses

368.2  Dictionaries and encyclopedias

368.3  Directories

368.4  Catalogs

368.5  Patents

368.6  History

369.A-Z  By region or country, A-Z
    Biography
    Collective
    Individual, A-Z

370  General works

370.2  Popular works

370.3  Juvenile works

370.4  Handbooks, tables, etc.

370.5  General special

370.6  Addresses, essays, lectures

370.7  Study and teaching

370.8  Research

370.9.A-Z  Special aspects, A-Z
    Automation see TP372.8
    Color of food
    Mathematical models
    Transport theory

371  General works

371.15  Aeration

371.15  Preservation techniques
    For home preservation see TX599+

371.2  General works
    Canning

371.3  General works

371.35  Sterilization of canned foods

371.4  General works
    By use of additives

371.42  General works

371.44  Brining, pickling, fermenting, etc.

371.46  Carbon dioxide treatment
    Including Dense phase carbon dioxide pasteurization

371.5  Drying. Dehydration

General works
Food processing and manufacture

Special processes

Preservation techniques

Drying. Dehydration -- Continued

371.6
Freeze-drying
371.65
Solar drying
371.66
Spray drying
371.7
Electric fields
371.75
High pressure
371.8
Irradiation

Low temperature
372
General works
372.2
Cold storage
372.3
Freezing
372.4
Ultrasound

Chemistry testing. Quality control

Cf. TX501+ Nutrition

372.5
General works
372.55.A-Z
Special reactions, A-Z
372.55.E59
Enzymatic browning
372.55.M35
Maillard reaction

372.6
Standards
372.7
Production control
372.8
Automation
372.85
Three-dimensional food printing
373
Food processing plants and equipment

Cf. TH4526 Building construction

373.2
Transportation
373.3
Storage

Including food storage pests

Cf. SB937 Farm insect pests
373.5
Safety measures
373.6
Sanitation
373.8
By-products

Packaging
374
General works
374.5
Labeling
374.6
Modified atmosphere packaging

Special foods

Sugars and syrups (General). Cane sugar. Sucrose

375
Periodicals. Societies. Congresses

(375.3)
Yearbooks

see TP375
375.4
Dictionaries and encyclopedias
375.5
Directories
375.6
Patents
375.7
History
375.8.A-Z
By region or country, A-Z

General works

376
Early through 1800
377
1801-
378
Popular works
378.2
Juvenile works
379
Handbooks, tables, etc.
380
General special

Including production control, automation
Food processing and manufacture
   Special foods
   Sugars and syrups (General). Cane sugar. Sucrose -- Continued
   381
      Sugar-making machinery
   381.5
      Special methods
   382
      Analysis, testing. Saccharimetry
         Special kinds of sugars and syrups
            Beet
               For periodicals see TP375
   390
      General works
   391
      General special
         Cane see TP375+
   395
      Maple
   405
      Sorghum and corn
   413
      Molasses
   414
      Other special kinds of sugar
         Including glucose, lactose, dextrose, date, Jerusalem artichoke, trehalose
         Sugar products
   414.3
      General works
   414.4
      Caramel
         Confectionery see TX780.2+
   414.5
      Sugar byproducts
         For bagasse see TP996.B3
         Starches. Cornstarch
   415
      General works
   416.A-Z
      Special starches and starch products, A-Z
   416.D4
      Dextrin
   416.S3
      Sago
   416.T3
      Tapioca. Cassava
         Fats and oils see TP669+
         Flavoring aids
   418
      General works
   419
      Essential oils see TP958+
   420
      Extracts
         Spices, condiments
            For soy sauce see TP438.S6
         Sweeteners
   421
      General works
         Nonnutritive
   422
      General works
   423
      Cyclamates
   424
      Saccharin
   425
      Stevioside
   426
      Natural
         For honey see SF539
         For sugar see TP375+
   428
      Verjouice
      Vinegar
   429
      General works
   429.2
      Balsamic vinegar
   429.5
      Rice vinegar
         Leavening agents and baking aids
   431
      General works
   432
      Baking powder. Cream of tartar
   433
      Yeast. Compressed yeast
   Cereals and cereal products
Food processing and manufacture
Special foods
Cereals and cereal products -- Continued

434
General works
Milling see TS2120+

435.A-Z
Special, A-Z

435.C4
Cereals, Prepared

435.C67
Corn products
Feeds see TS2284+
Flour see TS2120+

435.M3
Macaroni, spaghetti, etc. Pasta

435.O37
Oat products
Including oat bran

435.R3
Rice products

435.R83
Rye products

435.S65
Sorghum products

435.W48
Wheat products

Bakery goods see TX761+
Confectionery see TX780.2+

Seeds and seed products
Cf. TS2120+ Flours and other milled products

437
General works

438.A-Z
Special, A-Z

438.P4
Peanuts. Peanut butter

438.S6
Soybeans
Including tofu, miso, natto and soy sauce

Nuts and nut products

439
General works

439.5.A-Z
Special nuts and products, A-Z

439.5.C45
Chestnuts

439.5.C6
Coconuts

439.5.H39
Hazelnuts

439.5.P42
Peanuts see TP438.P4
Pecans

Fruit and fruit products

440
General works

441.A-Z
Special fruits and products, A-Z

441.A6
Apples

441.B34
Bananas

441.B4
Berries

441.C45
Cherries

441.C5
Citrus products

441.J3
Jam. Jelly (General)

441.M36
Mangos

441.O4
Olives

441.P4
Peaches

441.P54
Pineapple

441.P55
Plums

441.P7
Prunes

Vegetables and vegetable products

443
General works

444.A-Z
Special vegetables and products, A-Z

444.A8
Asparagus

444.B38
Beans, Dried

444.B4
Beets

444.C3
Cabbage
Food processing and manufacture
Special foods
Vegetables and vegetable products
Special vegetables and products, A-Z -- Continued
444.C67 Corn
444.C8 Cucumbers
444.G37 Garlic
444.K65 Konnyaku
444.M8 Mushrooms
444.O5 Onions
444.P4 Peas
444.P6 Potatoes
444.S27 Sauerkraut
444.S65 Spinach
444.S94 Sweet potatoes
444.T6 Tomatoes
Algae and algae products
445 General works
445.5.A-Z Special algae and products, A-Z
445.5.A35 Agar
445.5.A45 Algin
445.5.C35 Carrageenan
Animal foods
Butchers' meats see TS1950+
Dairy foods see SF250.5+
Eggs see SF490+
Poultry see TS1968
Seafood see SH334.9+
Food substitutes
446 General works
447.A-Z Special, A-Z
447.F37 Fat substitutes
Margarine see TP684.M3
447.M4 Meat substitutes
Including cultured meat
Sugar substitutes see TP422+
Special food forms and foods for special purposes
450 General works
451.B38 Batters
Beverages see TP500+
Cereals, Prepared see TP435.C4
451.C6 Convenience foods
451.D53 Dietetic food
451.E3 Edible coatings
Gelatin see TP965
451.L67 Low-fat foods
451.S57 Snack foods
451.S67 Soups
453.A-Z Special food constituents, A-Z
453.C65 Colloids
453.L43 Lecithin
453.L56 Lipids
453.P45 Phenols
453.P64 Polysaccharides
453.P7 Proteins
Food processing and manufacture
Special foods
Special food constituents, A-Z -- Continued

453.V5
Vitamins

Food additives
Cf. TP371.42+ Chemical preservation by use of additives
Cf. TX553.A3 Nutrition

455
General works

456.A-Z
Special additives, A-Z

456.A2
Acids

456.B32
Bacterial starter cultures

456.C65
Colorants

456.E58
Enzymes

456.H93
Hydrocolloids
Cf. TP979.5.H93 Gums and resins

456.K64
Koji

Low temperature engineering. Cryogenic engineering
Cf. TP243 Compressed and liquefied gases
Cf. TP363 Heating, drying, cooling, evaporating, etc.

480
Periodicals, societies, congresses, etc.

482
General works
Refrigeration and icemaking

490
Periodicals, societies, congresses, etc.

490.4
Dictionaries and encyclopedias

490.5
Directories
General works

491
Early to 1850

492
1850-

492.2
Juvenile literature

492.3
Study and teaching

492.5
Theory. Thermodynamics

492.6
Domestic refrigeration
Cf. TP496+ Refrigerators

492.7
Miscellaneous special topics
Cf. TP495+ Machinery
Refrigerants

492.8
General works

492.82.A-Z
Special refrigerants, A-Z

492.82.D78
Dry ice

492.82.H93
Hydrocarbons

492.9
Thermoelectric cooling
Cf. QC621+ Thermoelectricity. Thomson effect. Peltier effect
Cold storage of food see TP372.2
Freezing of food (Food processing industry) see TP372.3
Freezing of food (Home methods) see TX610

History

494.A1
General works

494.A5-Z
Special countries, A-Z

Machinery
Including catalogs
For refrigerators see TP496-497

495
General works

495.3.A-Z
Special parts and equipment, A-Z

495.3.T47
Thermostatic expansion valves
Refrigerators

496
General works
Refrigeration and icemaking
   Refrigerators -- Continued
      Electric, gas, etc.
   Periodicals, societies, etc.
497.A1
   General works
497.A2-Z
498
   Ice cutting and storage
      Cf. NA6360 Commercial icehouses
      Cf. NA8350 Private icehouses
Fermentation industries. Beverages. Alcohol
   Cf. HD9350+ Economics
   Cf. TP371.44 Preserving food by fermentation
   Cf. TX726+ Cooking using alcoholic or fermented beverages
500
   Periodicals, societies, etc.
500.5
   Directories
501
   Congresses
   Exhibitions
502.A1
   General works
502.A2-Z
      By region or country, A-Z
         Subarrange each country by Table T4b
503
   Dictionaries and encyclopedias
      General works
504
   Early to 1800
505
   1800-
506
   General special
507
   Popular works
510
   Handbooks, tables, etc.
511
   Analysis. Testing
515
   Use of the microscope
      Cf. QR151+ Microorganisms of fermentation
517
   Apparatus, instruments, tools, etc.
      Cf. TP659.A1+ Bottling supplies, containers, etc.
   History
      Cf. TP544+ Wines
      Cf. TP573.A1+ Brewing
520
   General works
521
   Ancient
522
   Medieval
523
   Modern
   America
526
   General works
      United States
527
   General works
528
      Special states, A-W
529
   Canada
530
   West Indies
531
   Mexico and Central America
532
   South America
533.A-Z
   Europe, A-Z
534.A-Z
   Asia, A-Z
535.A-Z
   Africa, A-Z
536
   Australia
536.5
   New Zealand
537
   Pacific islands
   Study and teaching
540
   General works
Fermentation industries. Beverages. Alcohol
Study and teaching -- Continued

543
Special schools
Cf. TP574 Brewing and malting schools

Wine and winemaking
Cf. BM523.5.W5 Judaism

544
Periodicals, societies, congresses, etc.

546
Dictionaries and encyclopedias

546.5
Directories

Biography

547.A1
Collective

547.A5-Z
Individual, A-Z

General works

547.5
Early to 1800

548
1800-

548.2
Amateurs' manuals

548.5.A-Z
Special topics, A-Z

548.5.A38
Adulteration
  Including chaptalization

548.5.A5
Analysis, testing, etc.

548.5.A6
Apparatus and supplies

548.5.A93
Auctions

548.5.B9
By-products

548.5.C53
Clarification

548.5.C64
Color

548.5.F55
Flavor and odor

548.5.L32
Labels

Microbiology see QR151+
Odor see TP548.5.F55

548.5.P7
Preservatives

548.5.S35
Sanitation

548.5.S7
Sterilization

548.5.T68
Tourism

548.6.A-Z
Special types, A-Z
  For special types of wines by locality see TP553+

548.6.O74
Organic wines

548.6.P56
Pinot noir wines

548.6.R43
Red wines

548.6.R79
Rice wines see TP579

548.6.R67
Rosé wines

548.6.S65
Sparkling wines

549
History

Special countries
France

553
General works

555
Champagne

United States

557
General works

557.5.A-W
States, A-W

559.A-Z
Other regions and countries, A-Z

560
Unfermented grape juice. Must

561
Fruit wines. Flower wines

Fruit juices
  Cf. TP636 Syrups
  Cf. TP656+ Noncarbonated fruit beverages

562.A1
Periodicals. Societies. Serials
Fermentation industries. Beverages. Alcohol
Fruit juices -- Continued

562.A2 Congresses
562.A3-Z General works
562.5.A-Z Special fruit juices, A-Z
562.5.O73 Orange juice
Cider
563 General works
564 Unfermented apple juice
564.5 Perry
565 Fermented milk
   Including kefir and kumiss
Brewing and malting
   Cf. TH4531 Brewery design and construction
568 Dictionaries and encyclopedias
   General works
569 Early to 1800
570 1800-
572 Directories
   History
573.A1 General works
573.A3-Z Special countries, A-Z
   Biography
573.5.A1 Collective
573.5.A2-Z Individual, A-Z
574 Schools
   Special types
   For special types of brewed or malted beverages by locality see TP573.A3+
577 Beer
578 Ale
   Including porter, stout, etc.
579 Rice beer. Rice wines
   Including saké and makkŏli
Yeast in brewing
580 General works
581 Pure-culture yeast
583 Water in brewing
585 Hops in brewing
587 Malting and malt
588.A-Z Other fermented beverages, A-Z
588.G8 Guarapo
588.H37 Hard seltzer
588.K86 Kvass
588.M4 Mead
588.P8 Pulque
Distilling
589 Early to 1800
590 1800-
   History
590.5 General works
590.6.A-Z Special regions or countries, A-Z
   Biography
591.A1 Collective
591.A2-Z Individual, A-Z
Fermentation industries. Beverages. Alcohol

Distilling -- Continued

592
General special
Including fermentation of molasses

593
Alcohol (Ethanol)
Including denatured alcohol
Cf. HD9399 Economics

594
Wood alcohol (Methanol)
Distilled liquors
Cf. HD9390+ Economics

597
General works

599
Brandy

605
Whiskey

607.A-Z
Others, A-Z
607.A27
Absinthe
607.A57
Apple brandy
607.A6
Aquavit
607.B33
Bacanora
607.G4
Gin
607.K3
Kaoliang
607.K57
Kirsch
607.M46
Mescal
607.M66
Moonshine
607.R9
Rum
607.S65
Soju
607.S67
Sotol
607.T46
Tequila
607.V6
Vodka

609
Gaging and testing
Including tables
Cf. HF5716.L3+ Gaging of liquids in general

611
Liqueurs. Cordials

612
Compounding. Liquor-makers’ receipts

617
Catalogs of liquors

(618)
Adulteration of liquors
see TX597

Nonalcoholic beverages

620
General works

625
Artificial mineral waters
Carbonated beverages. Soda water
Hard seltzer see TP588.H37

628
Periodicals, societies, etc.

629
Directories

630
General works

635
Apparatus. Soda fountains
Including catalogs

636
Syrups
Chocolate, coffee, tea, etc.
Cf. TX583+ Adulterations

638
General works

640
Cacao. Chocolate. Cocoa

645
Coffee
Cf. TD888.C6 Air pollution by coffee processing plants

650
Tea

655.A-Z
Others, A-Z
Fermentation industries. Beverages. Alcohol
Nonalcoholic beverages -- Continued
Noncarbonated fruit beverages
Cf. TP562+ Fruit juices
656
General works
657.A-Z
Special noncarbonated fruit beverages, A-Z
657.L46
Lemonade
658
Congelation of beverages
Bottling. Bottler's machinery and supplies
Including labeling
659.A1
Periodicals, societies, etc.
659.A2-Z
General works
660
Beverage containers
Oils, fats, and waxes
Cf. TJ1077+ Lubricants
Cf. TP447.F37 Fat substitutes (Food processing and manufacture)
669
Periodicals, societies, etc.
669.5
Congresses
670
General works
671
Analysis, testing, etc.
673
Bleaching of oils, fats, waxes, etc.
675
Sulfonated oils
676
Animal fats, oils, etc.
Cf. TS1980+ Lard, tallow, fish oils, etc.
Insect waxes
677
General works
678
Beeswax
679.A-Z
Other waxes, A-Z
679.S8
Sugarcane wax
Vegetable oils and fats
Cf. TP958+ Essential oils
680
General works
681.A1
Periodicals, societies, etc.
681.A2-Z
General works
681.5
Tables, etc.
682
Linseed oil
683
Olive oil
684.A-Z
Other special oils and fats, A-Z
684.B3
Bati oil
684.C2
Cacao butter. Cocoa butter
684.C275
Cashew oil
684.C3
Castor oil
Chinese wood oil see TP684.T8
684.C6
Cnidoscolus oil
684.C7
Coconut oil
684.C8
Corn oil
684.H46
Hemp seed oil
684.I8
Isano oil
684.J64
Jojoba oil
684.M3
Margarine
Cf. HD9330.M37+ Margarine industry
Oleomargarine see TP684.M3
Orange oil see TP959.O7
684.P3
Palm oil
684.P4
Peanut oil
Oils, fats, and waxes

Vegetable oils and fats
Other special oils and fats, A-Z -- Continued

- Perilla oil
- Pumpkinseed oil
- Ragweed seed oil
- Rape oil
- Rice oil
- Rosin oil
- Rubber-seed oil
- Sal seed oil
- Shea butter
- Soybean oil
- Sunflower seed oil
- Tall oil
- Tung oil, Chinese wood oil
- Vanaspati

Mineral oils and waxes

General works
Analysis, testing, etc.
Reclamation of oil
Petroleum refining, Petroleum products
  Cf. TD888.P4 Air pollution by petroleum refineries
  Cf. TN860+ Petroleum extraction

Periodicals, societies, etc.
Directories of the industry see TN867

History
By region or country, A-Z
Juvenile works
Refineries, refinery equipment, automatic control
  Cf. TH4571 Construction of refineries
Cracking process
Other special processes (not A-Z)
  Including alkylation, hydrogenation, etc.
Patents
Safety measures and equipment
  Cf. TH9445.P4 Fire prevention and extinction in petroleum refineries
General special
  Including corrosion
Oil inspection, analysis, testing, standards, etc.
Tables
Special products
Gasoline
Unleaded gasoline
Chemicals
Other products, A-Z
Asphalts
Bitumen
Coke
Hydrocarbons
Kerosene
Mazut
Naphtha
Oil gas
Paraffins
Oils, fats, and waxes
   Mineral oils and waxes
      Petroleum refining. Petroleum products
      Special products
         Other products, A-Z -- Continued
692.4.S9  Sulfur compounds
692.4.T6  Toluene
692.5  Oil and gasoline handling and storage
693  Paraffin
695  Ozokerite, ceresin, etc. Natural paraffin
   Cf. TN857 Mineral resources, mining, etc.
698  Synthetic petroleum and its products
699  Shale oil and its products
   Cf. TN858+ Mineral industries
Illuminating industries (Nonelectric)
   Cf. HD4486+ Municipal lighting industries
   Cf. TH7700+ Domestic illumination
   Cf. TK4125+ Electric lighting
700  Periodicals, societies, etc.
   Exhibitions
702.A1  General works
702.A2-Z  By region or country, A-Z
   Subarrange each country by Table T4b
703  Congresses
704  Dictionaries and encyclopedias
705  General works
710  Tables, pocketbooks, etc.
713  General special
714  Directories
   Lighting fixtures see TH7960+
History
715  General works
716  Ancient
717  Medieval
718  Modern
719  Nineteenth century
720  Twentieth century
Special countries
   Including regulation, inspection, etc.
721  America
722  North America
   United States
724.A-.W  States, A-W
   Canada
726.A1-.A4  General works
726.A5-.Y  Special provinces, A-Y
   Mexico
728.A1-.A4  General works
728.A5-Z  Special states, A-Z
   West Indies
729.A1-.A4  General works
729.A5-Z  Special islands, A-Z
   South America
730  General works
Illuminating industries (Nonelectric)
Special countries
South America -- Continued
731.A-Z
    Subarrange each country by Table T4a
Europe
732
    General works
733.A-Z
    Subarrange each country by Table T4a
Asia
734
    General works
735.A-Z
    Subarrange each country by Table T4a
Africa
736
    General works
737.A-Z
    Subarrange each country by Table T4a
738
    Australia
738.5
    New Zealand
739
    Pacific islands
741
    Street lighting
        Cf. TK4188 Electric lighting
743
    Torches
    Candles see TP993
746
    Lamps
        Ancient lamps see NK4680
Gas industry
Periodicals, societies, etc. see TP700
Congress see TP703
Dictionaries and encyclopedias see TP704
Directories see TP714
History see TP715+
Special countries see TP721+
751
    General works
751.1
    General special
        Including corrosion and its prevention
751.3
    Business management
751.5
    Popular works
751.6
    Juvenile works
751.7
    Coal, oil, shale, and other resources for gas manufacture
752
    Gasworks
        For special plants see TP721+
753
    Tables, pocketbooks, etc.
754
    Analysis, tests, recorders, purification, etc.
755
    By-products
756
    Gas storage. Gasholders
756.5
    Underground storage
757
    Distribution. Mains, pipes, etc.
758
    Uses of gas
        Cf. TH6800+ Gas in guildings
        Cf. TP345.A1+ Gas as fuel
Natural gas (Mining engineering) see TN880+
Natural gas fuel see TP350
Gas industry -- Continued

759 Gasification of coal and oil
    Including underground gasification of coal
    Cf. TP336 Coke, carbonization of coal
    Cf. TP751.7 Coal and oil resources for gas manufacture
    Cf. TP762 Gas producers

760 Water gas
761.A-Z Other special kinds, A-Z
761.B8 Butane
761.C65 Compressed gas
761.L5 Liquid gas
761.M4 Methane
761.M44 Methylpropene
761.M7 Mond gas
761.P4 Petroleum gas
761.P9 Producer gas
761.P94 Propane
    Sludge gas see TD769.4

762 Gas producers for industrial purposes

Acetylene industry
765 Periodicals, societies, etc.
767 General works
769 Apparatus

Clay industries. Ceramics. Glass
770 Manufacture from calcium carbide

    Cf. HD9590+ Economics
    Cf. NK3700+ Ceramics (Art industries)
    Cf. NK5100+ Glass (Art industries)
    Cf. TA430 Ceramic materials
    Cf. TA450 Glass in engineering
    Cf. TN941+ Mineral industries
    Cf. TT919+ Pottery craft

785 Periodicals, societies, etc.
    For periodicals on glass alone see TP845

786 Congresses
787.A1 Exhibitions. Museums
787.A2-Z By region or country, A-Z
    Subarrange each country by Table T4b

788 Dictionaries and encyclopedias
789 Directories
790 Collected works (nonserial)

History
791 General works
792 Ancient
793 Medieval
794 Modern

Country divisions
797 America
798 United States
799.A.-W General works
    States, A-W
800.A-Z Cities, A-Z
801 Canada
802.A-Z Other American countries, A-Z

Europe
Clay industries. Ceramics. Glass

Country divisions

802.95  General works
803.A-Z  By region or country, A-Z
804.A-Z  Other countries, A-Z

Biography

805  General works
806.A-Z  Individual, A-Z

Potters’ marks see NK4215

Ceramic technology. Pottery

General works

807.A2  Early to 1800
807.A3-Z  1800-

808  Popular works

For pottery craft see TT919+

808.2  Juvenile works
809  Tables, calculations, etc.
809.5  Equipment and supplies

For kilns see TP841+

810  Chemistry of pottery
810.5  Materials
811  Clay and clay analysis

Cf. TN941+ Mineral industries - Clay

811.5  Ceramography

Glazes, enamels, etc.

Cf. NK4997+ Enamels (Art)
Cf. TP823 Pottery decorating

812.A1  Periodicals, societies, etc.
812.A2-Z  General works
814  Technical processes

Including finishing, cutting, machining, etc.

815  General special

Including studies of clay, vitrification, dehydration, saggars

816  Study and teaching
817  Pottery machinery
818  Catalogs of pottery, stoneware, porcelain, glass, etc.
820  Earthenware. Stoneware
822  Porcelain
823  Technology of ceramic decoration. Glazes, engobes, colors

Architectural ceramics

825  General works

Bricks and brickmaking

Cf. TA432+ Properties of bricks

826  Special countries

United States

826.5.A-Z  Other countries, A-Z

General works

827.A1  Early to 1800
827.A2-Z  1800-
827.5  Juvenile works
828  General special
829  Brickmaking machinery, etc.
831  Pressed brick
832.A-Z  Other varieties. By name, A-Z
832.A35  Adobe brick
Clay industries. Ceramics. Glass
Architectural ceramics
Bricks and brickmaking
Other varieties. By name, A-Z -- Continued

832.C5
  Clinker brick
832.C6
  Cob
832.F5
  Firebrick
832.G6
  Glazed brick
832.G7
  Granite brick
832.H7
  Hollow brick
832.L7
  Lock-joint brick
832.S2
  Sand-lime brick
833
  General catalogs
835
  Terra-cotta
    Cf. TA432+ Properties of terra-cotta
837
  Tiles
    Cf. NA3705 Architectural decoration
    Cf. NK4670+ Art industries
    Cf. TA432+ Properties of tile
    Cf. TH8521+ Tile laying and tile decoration
    Cf. TT927 Tile craft
838
  Fireclay products and other refractories
    Cf. TA418.26 Engineering properties of refractories
    Cf. TA455.F5 Engineering properties of fireclay
    Cf. TN677+ Metallurgical plants. Metallurgical furnaces and refractory materials
    Cf. TP832.F5 Firebricks
839
  Draintile. Sewer pipe
    Including those made of clay, cement, etc.
    Cf. TA447 Testing
    Cf. TD682 Sewers
    Cf. TP885.P5 Cement pipe
Salt glazes, etc. see TP812.A1+

841
  Kilns
    Cf. TT924 Pottery craft
842.A-Z
  Special, A-Z
842.H7
  Hoffman's kiln
842.T8
  Tunnel kilns

Glass and glassmaking
    Cf. NK5100+ Art industries
845
  Periodicals, societies, etc.
    Cf. TP785 Ceramics and glass

846.A1
  Exhibitions. Museums
846.A2-Z
  By region or country, A-Z
    Subarrange each country by Table T4b
847
  Directories
848
  Collected works (nonserial)

849
  History
850
  Ancient
851
  Medieval
852
  Modern

853.A1-.A3
  Special countries
    United States
    General works
Clay industries. Ceramics. Glass
  Glass and glassmaking
    Special countries
      United States -- Continued
  853.A5-.W
    Special states, A-W
  854.A-Z
    Other countries, A-Z
  855
    Study and teaching
      General works
  856
    Early to 1800
  857
    1800
  857.3
    Popular works. Juvenile works
  857.5
    Tables, calculations, etc.
  858
    General special
      Including safety measures, patents, etc.
    Analysis see QD139.G5
  858.2.A-Z
    Special aspects, A-Z
  858.2.M37
    Mathematical models
  859
    Glassblowing, manipulation, etc.
      Cf. QD63.G5 Chemical laboratory manipulation
      Cf. TT298 Glass craft
  859.5
    Machinery, furnaces and other special equipment
  859.7
    Waste glass. Glass recycling
  860
    Plate glass
  860.5
    Glass fibers
      Cf. TA450 Engineering materials
      Cf. TS1549.G5 Textile industries
  861
    Cut glass
  861.5
    Colored glass
  862
    Other special varieties of glass
    Ornamental glass used in buildings, etc.
      Cf. NK5300+ Decorative arts
      Cf. TH8271+ Decoration of buildings
      Cf. TT298 Handicrafts
  863
    General works
  864
    Sand-blast process
  865
    Glassware. Articles made of glass
      For early American pressed glass see NK5112
  866
    General works
  867
    Bottles
      Including thermos bottles
      Cf. TP659.A1+ Bottling
  867.3
    Mirrors and mirror-frames
    Optical glass see QC375
  868
    Glass-ceramic pipe
  869
    General catalogs and trade publications
  870
    Soluble glass. Water glass
  871
    Artificial minerals
  871.5.A-Z
    Special, A-Z
  871.5.D5
    Diamonds
Cement industries. Cement, lime, mortar, plaster, etc.
  Including industrial processes only
  For engineering properties and on-site preparation see TA434+

875
Periodicals, societies, etc.
Directories
876.A2
  General works
876.A4-Z
  By region or country, A-Z
877
General works
879.A1
  General works
879.A2-.W
  States, A-W
880.A-Z
  Other countries, A-Z
Special countries
  United States
879.A1
  General works
879.A2-.W
  States, A-W
880.A-Z
  Other countries, A-Z
Cement manufacture
  Including concrete when used for the factory-made products provided for in TP885
881
General works
882
Plants and equipment
882.3
Analysis of cement
883
Portland cement
884.A-Z
  Other special, A-Z
884.A3
  Additives
884.A48
  Alumina cement
884.A8
  Asbestos cement
884.A85
  Asphalt concrete
884.C5
  Clinker concrete
884.L5
  Lightweight concrete
884.M2
  Magnesia cements
884.R7
  Roman cement
884.S3
  Sand-lime products
884.S6
  Slag cement
884.S84
  Sulfoaluminate cement
884.S85
  Sulfur cement
Articles of cement or concrete
  Class here factory made products only
  Cf. TT295 Handicrafts
885.A2
  General works
885.A5-Z
  Special. By name, A-Z
885.C7
  Concrete blocks and slabs
    Cf. TH1491 Concrete block building construction
885.F7
  Fountains
885.G3
  Garden furniture
885.L3
  Lampposts
885.M7
  Monuments
885.P5
  Pipe and tile
    Cf. TA447 Pipes of cement and clay
    Cf. TP839 Draintile and sewer pipe
    Sidewalks, curbs see TE291
885.T7
  Trusses
886
  Lime and limekilns
    Cf. TP841+ Kilns
887
  Mortar
888
  Plaster and other gypsum products
    Cf. TH8135+ Building trades
889
  Magnesia industries
Textile bleaching, dyeing, printing, etc.
   Cf. TS1474.5 Textile chemistry
   Cf. TT852+ Textile crafts
890  Periodicals, societies, etc.
890.5  Congresses
891  Directories
892  Theory
   Including color combinations, etc.
893  General works
   Bleaching, cleaning, scouring
894  General works
894.5  Bleaches
895  Cleaning
   Cf. TP932+ Commercial garment cleaning
   Cf. TP990+ Cleaning compounds

Dyeing
   Cf. NK9500+ Textile decoration
897  General works
   Dyeing of cotton see TP930+
899  Dyeing of wool
901  Dyeing of silk
902  Dyeing of artificial silk
903  Dyeing of linen
904  Dyeing of synthetic textile fibers
   Dyeing of fur see TS1060+
   Dyeing of leather see TS967
   Dyeing of paper see TS1118.D9
907  Special colors. Effects, shades, not dyes
   Including khaki, etc.
908  Dyeing of special articles
   Garment dyeing, Commercial see TP932+
   Garment dyeing, Home see TT853+
   Dyes
      Periodicals, societies, etc. see TP890
910  General works
   Artificial dyes
913  General works
914  Coal-tar colors. Aniline dyes. Azo dyes
915  Anthracene dyes
918.A-Z  Other special dyes, A-Z
918.A4  Alizarin
   Alizarin black see TP918.N2
918.A5  Aniline black
918.A6  Anthraquinones
   Artificial indigo see TP924
(918.A9)  Azo dyes
   see TP914
918.C37  Carbazoles
918.C9  Cyanines
918.I5  Induline
918.N2  Naphthazarin. Alizarin black
918.P65  Polymethines
918.S8  Sulfur dyes
918.V37  Vat dyes
   Natural dyes
919  General works
Textile bleaching, dyeing, printing, etc.
Dyeing
Dyes
Natural dyes -- Continued
Indigo
923  General works
924  Artificial indigo
925.A-Z  Other special dyes, A-Z
925.C38  Catechu
925.C63  Cochineal
925.K35  Kamala
925.M33  Madder
925.P9  Purple
925.S23  Safflower
925.W8  Woad
927  Mordants
929  Miscellaneous
Textile printing. Calico printing. Cotton dyeing
Cf. NK9500+ Textile decoration
Cf. TS1475 Textile design
930  General works
930.5  Machinery
931.A-Z  Special, other than cotton or calico, A-Z
931.C2  Carpet yarns
931.S6  Silk fabrics
Commercial garment cleaning and dyeing
Cf. TT853+ Textile crafts
Cf. TT980+ Laundry
932  General works
932.3  Dry cleaning
932.5  Wet cleaning
932.6  Spotting
933  Feather renovating, etc.
Paints, pigments, varnishes, etc.
Class here manufacture only
Cf. ND1500+ Fine arts
Cf. TT300+ Industrial painting
934  Periodicals, societies, congresses, etc.
934.3  Dictionaries and encyclopedias
934.5  Directories
General works
Documents
United States
935.A2U4-.A2U5  Serial
935.A2U6  Special. By date
935.A3A-.A3W  By state, A-W
935.A4A-.A4Z  Other countries, A-Z
935.A5-Z  Nonofficial works
Paints and pigments. Zinc oxide. Iron oxide
Cf. TP682 Linseed oil
Cf. TP951 Carbon black (Pigments)
Cf. TP977+ Turpentine, etc.
936  General works
936.5  Paint analysis, testing, etc.
937  Catalogs
Paints, pigments, varnishes, etc.
  Paints and pigments. Zinc oxide. Iron oxide -- Continued
  Paint machinery
    Including machines used for grinding, mixing, etc.
  Driers, thinners, fillers, etc.
  Paint removers
  Varnishes. Shellac
  Lacquers and enamels
  Polishes
  Putty
  Japanning materials
  Blacking materials
  High solids coatings
Ink manufacture
  Cf. Z45 History of writing materials
  Cf. Z112 Paleography
  General works
  History
  Particular inks. By name, A-Z
  Arnold's fluid
  Printers' ink
    Cf. Z247 Printing
  General works
  Catalogs of dealers
  Other special inks
    Including inks for recording instruments
Miscellaneous organic chemical industries
  General works
  Carbon black
    Cf. TP245.C4 Carbon
  Coal products, coal tar, etc.
    Cf. TP914 Dyes
  Dentifrices
  Essences, essential oils and ethers
    Cf. RS201.E7 Pharmacy
    Cf. TP680+ Vegetable oils
  General works
  Special substances, A-Z
    Attar of roses see TP959.R6
  Bergamot oil
  Citronella oil
  Citrus oils
  Eucalyptus oils
  Lemongrass oil
  Mustard oil
  Orange oil
  Patchouli oil
  Peppermint oil
  Pine oil
  Rose oil. Attar of roses
  Sassafras oil
Fertilizers
  Cf. S631+ Use of fertilizers
  Cf. TD772 Manufacture of fertilizer from sewage sludge
  General works
  Special fertilizers, A-Z
Miscellaneous organic chemical industries
Fertilizers
  Special fertilizers, A-Z -- Continued
963.4.A38  Ammonium phosphate
963.4.A4  Ammonium sulfate
963.4.C3  Calcium cyanamide
963.4.N5  Nitrogen
963.4.S9  Superphosphates
963.4.U7  Urea
965  Gelatin
Glue and other adhesives
  Cf. TS857 Wood adhesives
967  Periodicals, societies, congresses, etc.
967.6  Directories
968  General works
970  Mucilage and pastes
971  Pressure-sensitive adhesives
973  Glycerin
Gums and resins. Turpentine, etc.
  Cf. TP1101+ Plastics
977  Periodicals
978  General works
979  Resinography
979.5.A-Z  Special, A-Z
979.5.B4  Benzoin
979.5.H93  Hydrocolloids
  Cf. TP456.H93 Food additives
979.5.I6  Ion exchange resin
979.5.P6  Polysaccharides
Perfumes, cosmetics, and other toilet preparations
983.A1-.A5  Periodicals, societies, congresses, etc.
983.A55  Dictionaries and encyclopedias
983.A6  Directories
  Biography
983.A65  Collective
983.A66A-.A66Z  Individual, A-Z
983.A7-.Z4  General works
983.Z5  Trade publications
983.3  Cosmetic delivery systems
984  Hair preparations
  Including shampoos, hair conditioners, etc.
985  Antiperspirants, deodorants, etc.
(986-987)  Plastics
  see TP1101+
988  Sealing. Sealing compounds
Soap, cleaning compounds, etc.
  Cf. TP895 Cleaning
990  General works
991  Soaps
992  Metallic soaps
992.5  Other cleaning compounds
993  Candles
  Cf. TP669+ Oils, fats, and waxes
  Cf. TS1980+ Lard, tallow, etc.
  Cf. TT896.5 Handicraft
994  Surface active agents
Utilization of wastes
   Prefer field of application
      Cf. TS169 Waste control
995.A1 Periodicals, societies, etc.
995.A2-Z General works
996.A-Z Special, A-Z
996.B3 Bagasse
996.C6 Corncobs
996.C7 Cornstalks
996.C75 Cotton
996.F5 Fish
996.T5 Tin
996.W6 Wood
      Cf. TS875 Fiberboard, particle board, etc.
997 Wood distillation
      Cf. TS920+ Chemical processing of wood
Polymers and polymer manufacture
      Cf. QD281.P6 Polymerization (Chemistry)
      Cf. QD380+ Polymer chemistry
      Cf. TA455.P58+ Engineering materials
      Cf. TP156.P6 Polymerization (Chemical engineering)
      Cf. TP248.65.P62 Polymers (Biotechnology)
1080 Periodicals, societies, etc.
1081 Congresses
1087 General works
1088 Popular works
1089 Juvenile works
1091 Handbooks, tables, etc.
1092 General special
   Technical processes see TP1150+
   Special polymers see TP1180.A+
   Special forms see TP1183.A+
   Special products see TP1185.A+
   Elastomers, synthetic rubber see TS1925
   Synthetic fibers see TS1548.2+
Plastics
      Cf. HD9661+ Economics
      Cf. TA455.P5+ Engineering materials
      Cf. TA668 Structural engineering
      Cf. TJ1194 Materials used in machine and hand tools
      Cf. TT297+ Plastic craft
1101 Periodicals, societies, etc.
(1103) Yearbooks
      see TP1101
1105 Congresses
Exhibitions. Museums
1107.A1 General works
1107.A2-Z By region or country, A-Z
      Subarrange each country by Table T4b
1109 Collected works (nonserial)
1110 Dictionaries and encyclopedias
1111 Plastics literature
1112 Directories
1114 Patents
History
1116 General works
Polymers and polymer manufacture

Plastics

History -- Continued

Special countries

1117
United States

1118.A-Z
Other countries, A-Z

Biography

1119.A1
Collective

1119.A2-Z
Individual, A-Z

1120
General works

1122
General special

1124
Popular works

1125
Juvenile works

Study and teaching

1127
General works

1129
Laboratory manuals

1130
Handbooks, manuals, tables, etc.

1132
Catalogs

1135
Plastics plants and equipment

1140
Technical chemistry of plastics (Analysis)

For testing for mechanical properties see TA455.P5+

For use of plastics in fireproof construction see TH1074

1142
Additives

For plasticizers see TP247.7

1145
Handling, packing, etc.

1148
Safety measures

Technical processes

For general works see TP1120

Molding and casting

1150
General works

1151.A-Z
Special molding and casting processes, A-Z

1151.C56
Closed molding

For specific closed molding processes see the process, e.g., Resin transfer process, TP1151.R47

1151.I55
Injection blow molding

1151.L37
Laser sintering

1151.R43
Reaction injection molding

1151.R47
Resin transfer molding

1151.T48
Thermoforming

1155
Machining and cutting

1160
Welding

1165
Joining and bonding

1170
Finishing and decorating

1175.A-Z
Other processes, A-Z

1175.C3
Calendering

1175.E9
Extrusion

1175.M4
Metal coating

Class here works on metal coatings on plastics

1175.M5
Mixing

1175.P84
Pultrusion

1175.R43
Recycling

1175.S6
Spraying with plastics

For powder coating of metals see TS699

Reinforced plastics

1177
General works

1177.5.A-Z
Special reinforcement materials, A-Z
Polymers and polymer manufacture
Plastics
Reinforced plastics
Special reinforcement materials, A-Z -- Continued
1177.5.A8
Asbestos
1177.5.F5
Fibers
1177.5.G5
Glass
1180.A-Z
Special plastics, A-Z
1180.A15
ABS resins
1180.A33
Acetal resins
1180.A35
Acrylic resins
1180.A5
Aminoplastics
1180.A58
Antimicrobial polymers
1180.B3
Bakelite
1180.B55
Biodegradable plastics
1180.C2
Casein
1180.C4
Cellophane
1180.C5
Celluloid
1180.C6
Cellulose
1180.D45
Dendrimers
1180.D5
Diallyl phthalate
1180.E6
Epoxy resins
1180.F5
Fiberloid
1180.F6
Fluorocarbons
1180.F8
Furans
1180.G8
Gum plastics
1180.I5
Indene resins
1180.L8
Lucite
Nylon see TP1180.P55
1180.P39
Phenolic resins
1180.P4
Phenolite
1180.P5
Plexiglas
1180.P53
Polyacetylenes
1180.P54
Polyacrylamides
1180.P55
Polyamides. Nylon
1180.P552
Polyanilines
1180.P553
Polyaryethers
1180.P555
Polybischloromethylloxetane
1180.P56
Polybutenes
1180.P57
Polycarbonates
1180.P6
Polyesters
1180.P65
Polyethylene
1180.P653
Polyethylene glycol
1180.P655
Polyethyleneimine
1180.P66
Polymides
1180.P663
Polyketones
1180.P666
Polymer liquid crystals
1180.P67
Polyolefins
1180.P678
Polyphenylene oxide
1180.P68
Polypropylene
Polystyrene see TP1180.S7
1180.P685
Polysulphides
1180.P7
Polytetrafluoroethylene
1180.P8
Polyurethanes
Polyvinyl see TP1180.V48
1180.S7
Styrene. Polystyrene
Polymers and polymer manufacture

Plastics

Special plastics, A-Z -- Continued

1180.T4
  Tenite
1180.T5
  Thermoplastics
1180.T55
  Thermosetting plastics
1180.U7
  Urea-formaldehyde resins
1180.V42
  Vinidur
1180.V48
  Vinyl. Polyvinyl
1180.W37
  Water-soluble polymers

1183.A-Z
  Special forms, A-Z

1183.B3
  Bars
1183.F5
  Films
1183.F6
  Foamed plastics
1183.L3
  Laminated plastics
1183.M5
  Microcrystalline polymers
1183.P68
  Powders
  Reinforced plastics see TP1177+

1185.A-Z
  Special products, A-Z

(1185.C6)
  Containers
  see TS198.3.P5

(1185.E4)
  Electric apparatus and appliances
  see TK454.4.P55

(1185.E5)
  Electric insulators
  see TK3441.P55

1185.E9
  Eye protectors
1185.F8
  Furniture
1185.H4
  Helmets
  Lenses for optical instruments see TS517.5.P5
1185.M3
  Machine parts
1185.P5
  Pipe
  Cf. TA448 Testing of plastic pipe
  Cf. TH6330 Plastic pipes in plumbing
1185.R46
  Resins
1185.S65
  Sporting surfaces
1185.T3
  Tanks
1185.T5
  Tiles
Photography
Cf. BP190.5.A7 Islam and photography

1 Periodicals. Societies. Almanacs

5 Congresses
Exhibitions. Museums
Cf. TR646.A+ Exhibitions of artistic photography

6.A1 General works
6.A2-Z By region or country, A-Z
Subarrange each country by Table T4b

6.5 Collectors' manuals. Collections of old photographs and photographic equipment

7 Collected works (nonserial)

9 Dictionaries. Encyclopedias

Communication of photography information

10 General works
11 Computer network resources
Including the Internet

12 Directories. Bluebooks

15 History (General)

21-127 Country divisions (Table T1a)
Add country number in table to TR0

Biography
Prefer TR650+ for collections of artistic photographs by one photographer where biographic
material is slight

139 Collective
140.A-Z Individual, A-Z

General works

144 Early to 1850
145 1850-
146 Elementary works. Handbooks, manuals, etc.
147 General special
Including manipulation, causes of failures, etc.

Image analysis. Image authentication see TA1654

148 Photographic amusements. Trick photography. Special effects

149 Popular works. Juvenile works

150 Photographers' reference handbooks
151 Tables, formulas, etc.
154 Photography as a profession

161 Study and teaching
162 Examinations, questions, etc.

179 Composition

183 Psychology, aesthetics, etc.
Cf. TR640+ Artistic photography

184 Political aspects

185 Addresses, essays, lectures

187 Photographic criticism

(193-195) Law. Legislation
see class K

Materials, supplies, etc.

196 General works
Including testing

196.5.A-Z Special companies, A-Z

197 Catalogs of apparatus

198 Catalogs of materials and supplies
Materials, supplies, etc. -- Continued

199
Catalogs of photographs (General)
   For catalogs of photographs on specific subjects, see the subject
   For catalogs of photographs treated as an information resource see ZA4650+
   Cf. TR640+ Artistic photography

200
Theory of photographic processes in general
   General works
210
   Photographic chemistry and chemicals
212
   Photographic chemicals
215
   Photographic physics
   General works
220
   Photographic optics
222
   Properties of the photographic image. Image science
225
   Recovery of photographic waste

250
Cameras
   General works
   Prefer TR263 for special makes of cameras
   Motion picture cameras see TR880
256
   Digital cameras
257
   Medium format cameras
257.5
   Streak cameras
258
   View cameras
259
   Stereoscopic cameras
260
   Hand cameras
260.5
   Automatic cameras. Electric eye cameras
260.7
   Autofocus cameras
261
   Reflex cameras
262
   Miniature cameras
262.5
   Mirrorless interchangeable-lens cameras
263.A-Z
   Special makes of film and digital cameras, A-Z
263.A35
   Agfa
263.A7
   Argus
263.C3
   Canon
263.C5
   Ciro-flex
263.C6
   Contax
263.E75
   Ernemann
263.E9
   Exakta
263.F85
   Fujifilm
263.H3
   Hasselblad
263.K54
   Kodak
263.K55
   Konica
263.L4
   Leica
263.L66
   Lomo
263.M47
   Minolta
263.M5
   Minox
263.N5
   Nikon
263.O4
   Olympus
263.P4
   Pentax
263.P6
   Polaroid Land
263.R4
   Retina
263.R6
   Rollei
263.S66
   Sony
263.Y3
   Yashica
263.Z4
   Zeiss
265
   Camera accessories
Cameras -- Continued
Catalogs see TR197
Digital photography
   Cf. TA1637+ Image processing
   Cf. TR502 Photo CDs
267
   General works
267.3
   Computational photography
267.5.A-Z
   Special systems, standards, software, A-Z
      Including individual programs, e.g. Photoshop
267.5.A25
   Adobe Camera Raw
267.5.A3
   Adobe Photoshop
267.5.A33
   Adobe Photoshop lightroom
267.5.A64
   Aperture
267.5.A965
   Autodesk Smoke
   Corel PaintShop see TR267.5.P35
267.5.F55
   Flickr
267.5.G56
   GIMP
267.5.I57
   Instagram
267.5.I64
   iPhoto
      JPEG see TA1638
267.5.M53
   Microsoft Digital image
   MPEG see TK6680.8.M74
267.5.N56
   Nik Software HDR Efex Pro
267.5.P35
   PaintShop Pro
267.5.P53
   Picasa
267.5.V84
   VueScan
Spectral imaging
267.73
   General works
267.733.A-Z
   Special topics, A-Z
267.733.M85
   Multispectral imaging
268
   Pinhole photography
269
   Instant photography
Lenses
270
   General works
271.A-Z
   Special, A-Z
271.M33
   Macro
      Cf. TR684 Macrophotography
271.T44
   Telephoto
      Cf. TR770 Telephotography
271.W53
   Wide-angle
      Cf. TR687 Wide-angle photography
271.Z65
   Zoom
272
   Shutters
Sensitive surfaces
   Including sensitometry
280
   General works
281
   Plates
283
   Films
285
   Papers
Photographic processing. Darkroom technique (General)
287
   General works
   Treatment of negatives
290
   General works
295
   Development
299
   Intensification and reduction
Photographic processing. Darkroom technique (General)

Treatment of negatives -- Continued

305 Fixing and washing
310 Finishing, retouching
312 Contact prints

Treatment of positives

320 General works
330 Printing
333 By electric or other artificial light
335 Fixing. Toning. Intensification
337 Finishing

340 Trimming, mounting and framing of prints

Photographic processes

350 General works
360 Direct positives
365 Daguerreotype
370 Ambrotype
375 Ferrotype (Tintype)

Processes with salts of silver
385 General works
390 Collodion process
395 Emulsion processes. Aristotypes, calotypes, etc.
400 Other processes. Salts of silver and other metals

Including kallitype

Processes with salts of iron
405 General works
415 Blueprints from photographic negatives. Cyanotypes

Cf. TR921 Industrial blueprints

416 Chrysotype

Processes with salts of platinum

Processes with salts of metals

430 General works
433 Chromium. Ozotype, etc.
440 Carbon processes. Pigment processes
443 Oil processes. Bromoil
445 Gum-bichromate process. Photoaquatint

453 Photography of colored objects. Orthochromatic, isochromatic, etc.

Cf. TR510+ Color photography

455 Other processes

465 Conservation and restoration of photographs

470 Copying

Cf. TR825 Reproductions (photocopying)
Cf. TR835 Reproductions (microfilming)
Cf. TR900+ Reproductions (industrial)

475 Enlargement and reduction

Cf. TR905 Industrial reproduction

485 Coloring of prints. Airbrush work, etc.

487 Photo-oleographs

495 Photographs on metal, glass, cloth, leather, etc.

500 Photoenamels. Photoceramics

501 Photograph albums

For Aids. Scrapbooks, commonplace books see PN245

501.5 Photobooks

502 Photo CDs
Transparencies. Diapositives

504 General works
505 Lantern slides
506 Projectors
  Cf. TR890 Motion picture projectors
507 General works
508 Catalogs
508 Overhead projectors

Color photography
  Cf. TR453 Photography of colored objects

510 General works
515 Materials, supplies, etc.
  Including testing
520 Tricolor
525 Interference. Lippmann's process
General darkroom procedures. Processing of exposed film
530 General works
540 Treatment of positives
  General works
545 Printing

Studio and laboratory
550 General works
560 Darkrooms
570 Accessories and apparatus
573 Studio lighting
Portrait photography
  Cf. TR680+ Artistic photography
574 General works
577 Advice to sitters
  Including posing guides
581 Business methods
  For selling photographs see HF5439.P43

Lighting
  Cf. TR573 Studio lighting
  Cf. TR891 Lighting for motion pictures
Artificial and natural
590 General works
590.5 Light filters
Exposures
591 General works
592 Instantaneous
  Including exposures of one thousandth of a second or longer
593 High speed
  Including exposures shorter than one thousandth of a second
594 Multiple exposures
  Including exposure bracketing and high dynamic range imaging
595 Daylight
600 Artificial light
Flashlight. Flash photography
605 General works
606 Electronic flash
610 Night views
615 Open air views
620 Interiors
Applied photography
   Class here techniques for taking and using photographs in special fields
   Collections of photographs in special fields are normally classed with the field, e.g., pictorial works
   in natural history in QH46 views of modern Greece in DF719 pictorial works on North American
   Indians in E77.5
   For collections of artistic photographs, however, or collections where the artistic intent is more
   overriding than the actual subject content see TR640+
   Periodicals, exhibitions, dictionaries, etc.
   see TR1+

624  General works
Artistic photography
640  Periodicals, societies, congresses, etc.
642  General works
Exhibitions
   Prefer TR650+ for collections of photographs
   Works of more than one photographer
   United States
644  General works
645.A-Z  By city, A-Z
   Under each city:
   .x  General works
   .x2A-.x2Z  By museum, A-Z
646.A-Z  Other regions or countries, A-Z
   Subarrange each country by Table T4a
   Under each photographer, arrange by date of exhibition
   Class here works of individual photographers not limited by topic, e.g., class landscape
   photography by Ansel Adams in TR660 as well as exhibitions of their work
Collections
650  General works
   By period
   1800-1850
   1851-1900
   1901-1950
   1951-2000
   2001-
656  Abstract photography
656.5  Still life photography
   Cf. TR721+ Nature photography
656.7  Photography of food
   Photography of art
657  General works
658  Paintings
658.3  Sculpture
658.5  Photography of handicraft
   General works
658.58  Ventriloquists' dummies
658.7  Photography of toys
659  Architectural photography
   Cf. NA2543.P46 Architecture and photography
659.5  Outdoor photography
   For lighting of open air views see TR615
659.8  Street photography
   Landscape photography
660  General works
660.5  Collections
Applied photography
  Artistic photography -- Continued

661
  Panoramic views
662
  Gardens
663
  Markets
  Marines. Seashore photography. Water
    For photography of marine animals see TR729.M37
    Cf. TR800 Underwater photography
670
  General works
670.5
  Ships, boats, etc.
672
  Mines
673
  Photography of violence
    Human figures. Photography of the nude
674
  General works
675
  Collections
676
  Erotic photography
678
  Glamour photography
679
  Fashion photography
679.5
  Humorous photography
  Portraits
    Cf. TR575+ Portrait photography
680
  Collections
681.A-Z
  Special classes of persons, A-Z
681.A26
  Acrobats
681.A28
  Actors
681.A32
  Afghans
681.A33
  Africans
681.A35
  Aged. Older people
681.A38
  AIDS patients
681.A54
  Anglo-Indians
681.A67
  Architects
681.A69
  Artisans
681.A7
  Artists
681.A75
  Asians
681.A84
  Athletes
681.A85
  Authors
681.A94
  Automobile drivers
681.B35
  Bald persons
681.B37
  Baseball players
681.B52
  Black people
681.B54
  Blind
681.B57
  Bodybuilders
681.B6
  Boys
681.B87
  Businesspeople
    For specific classes of businesspeople see the class, e.g., Merchants TR681.M44
681.C37
  Cartoonists
681.C38
  Catholics
681.C5
  Children
681.C62
  Coal miners
  Comfort women see TR681.P73
681.C66
  Cooks
681.C68
  Couples
  Cross-dressers see TR681.T7
  Dancers see GV1785.A+
  Daughters and fathers see TR681.F33
Applied photography
Artistic photography
Portraits
Special classes of persons, A-Z -- Continued

681.D43
681.D63
681.D74
681.D88
681.E36
681.E94
681.F28
681.F3
681.F314
681.F316
681.F32
681.F325
681.F33
681.F34
681.F37
681.F57
681.G47
681.G5
681.G73
681.G9
681.H35
681.H63
681.H65
681.I54
681.I58
681.I6
681.J35
681.L4
681.L44
681.L46
681.L47
681.L63
681.M38
681.M39
681.M395
681.M4
681.M44
681.M65
681.M67
681.M69
681.M72
(681.M86)
681.N54
681.N66
681.P56
681.P58
681.P59
681.P6
681.P67
Applied photography
Artistic photography
Portraits

Special classes of persons, A-Z -- Continued

Prisoners

Prostitutes. Comfort women

Psychiatric hospital patients

Punks

Redheads

Refugees

Religious leaders

Romanies see TR681.G9

Sadhus

Sailors

Scholars

Scientists

Sexual minorities

Class here works on sexual minorities in general

For specific types of sexual minorities, see the minority, e.g., Homosexuals, see TR681.H65

Singers see ML87+

Skateboarders

Skinheads

Snapshooters

Soldiers

Sons and fathers see TR681.F34

Students

Surfers

Swimmers

 Terminally ill

Transgender people

Transvestites. Cross-dressers

Twins

 Vintners

Visitors, Foreign

Women

Women clerks (Retail trade)

Working class

Young men

Youth

Photographic patterns. Textures

Close-up photography

General works

Table-top photography

Macrophotography

Composite photography. Photomontage

Photography of the grotesque

Wide-angle photography

Photograms

Vernacular photography

Including photographs taken with cameras worn by animals, etc., for artistic or scientific purposes

Appropriation (Art)

Commercial photography

 Cf. TR550+ Studio and laboratory

General works
Applied photography
  Commercial photography -- Continued
690.2  Freelance photography. Amateur photography for profit
    Cf. TR820 Photojournalism
690.4  Advertising photography
690.6  Stock photography
Scientific and technical applications
692  General works
692.5  General special
Photogrammetry
    Cf. TA592+ Photography in surveying
    Cf. TR810 Aerial applications
693  General works
695  Tables, formulas, etc.
696  Instruments, equipment, etc.
702  Photography in engineering
706  Industrial photography
708  Medical photography
710  Scientific expeditions
713  Space photography
714  Photography of airplanes
715  Photography of railroads
    Including model railroads
716  Photography of automobiles
  Photography of machinery
717  General works
717.3.A-Z  Special subjects, A-Z
    Airplanes see TR714
    Automobiles see TR716
717.3.S49  Sex machines
Astronomical photography see QB121+
Photomicrography see QH251
Nature photography
    Cf. QH46 Pictorial works in natural history
721  General works
Plants, flowers, etc.
724  General works
726.A-Z  Special subjects, A-Z
726.B25  Bamboo
726.B3  Bark
726.F85  Fungi
726.L42  Leaves
726.L66  Lotus
726.O73  Orchids
726.R66  Roses
726.T7  Trees
Animals
727  General works
729.A-Z  Special subjects, A-Z
729.B5  Birds
729.C3  Cats
729.C69  Cows
729.D6  Dogs
729.E45  Elephants
729.F5  Fish
729.H6  Horses
Applied photography
   Scientific and technical applications
   Nature photography
   Animals
      Special subjects, A-Z -- Continued
      Insects
         Including individual insects
729.I6
729.L5
    Livestock
729.M37
    Marine animals
729.P48
    Pets
729.P74
    Primates
729.R47
    Reptiles
729.S54
    Shells
729.W54
    Wildlife
732
    Rocks
732.5
    Minerals
Meteorological photography
732.8
    General works
733
    Clouds
Agricultural photography
739
    General works
739.5
    Farms
739.6
    Grain elevators
750
    Radiography
       Cf. QD945 X-ray crystallography
       Cf. RC78+ Medical radiography
       Cf. TA417.25 Radiographic examination
       Cf. TR896.8 Cinderradiography
755
    Infrared photography
757
    Polarized-light photography
760
    Kirlian photography. High voltage photography
770
    Telephotography
775
    Archaeological photography
780
    Stereophotography
       Cf. TR858 Stereoscopic motion pictures
(785)
    Military photography
       see UG476
Geographical applications
786
    General works
787
    Mountain photography
788
    Subterranean photography. Cave photography
       Cf. TR672 Photography of mines
790
    Travel photography
792
    Cold weather photography
795
    Tropical photography
800
    Underwater photography
       Cf. GC10.4.P5 Photography in oceanography
       Cf. TR670+ Marines. Seashore photography. Water
810
    Aerial photography. Photographic interpretation
       Cf. G70.4 Remote sensing in geography
    Photography in library science see Z681+
816
    Audiovisual photography. Photography in education
817
    Stage photography. Theater photography
817.5
    Dance photography
       Cf. GV1596 Pictorial works
       Cf. GV1785.A+ Portraits of dancers
Applied photography -- Continued

818  
School photography

819  
Wedding photography
Cf. HF5439.W4 Salesmanship

820  
Photojournalism

820.5  
Documentary photography
Cf. D16.155 Photography in historiography

820.6  
War photography

821  
Sports photography

822  
Photography in criminology and law
Cf. KF8968 Photographic evidence (U.S.)

Photographic reproduction. Photocopying processes
Cf. Z265+ Printing

824  
General works

824.4  
Dictionaries. Encyclopedias

824.6  
Directories
Industrial reproduction see TR900+
Map reproduction see GA150.7
Photomechanical processes see TR925+
Photography of art objects see TR657+

825  
Photography of manuscripts, historic documents, etc.

835  
Microfilming. Microphotography
Including standards
Class here works on the operation and use of equipment to make microforms or other images too small to be seen by the naked eye
For works on the design and use of books, documents, computer-output data, etc., in a microform format see Z265.5.M53
For micropublishing see Z286.M5

840  
Chronophotography
Cf. TR857 Time lapse cinematography

Cinematography. Motion pictures. Video recording
Cf. NC1765+ Cartoons
Cf. PN1993+ Drama
Cf. TR592 Instantaneous photography
Cf. UF840 Photochronograph in ballistics

845  
Periodicals. Societies. Collections

846  
Congresses

847  
Dictionaries and encyclopedias

847.5  
Directories

848  
History

Biography
Including inventors, projectionists, etc.
For producers, directors, etc. see PN1998.3.A+
For actors and actresses see PN2287.A+

849.A1  
Collective

849.A2-Z  
Individual, A-Z

850  
Treatises

851  
Elementary and juvenile works

851.8  
Tables, calculations, etc.

852  
Study and teaching

Special photographic processes

853  
Color cinematography

854  
3-D films. Stereoscopic motion pictures
Including true 3-D and simulated 3-D

855  
Wide-screen processes

857  
Time-lapse photography
Cinematography. Motion pictures. Video recording
   Special photographic processes -- Continued
858   Trick cinematography. Special effects
859   Front-screen projection
860   Digital cinematography
   Including the use of digital video for purposes of making a motion picture product
   For special software see TR897.72.A+
862   High definition video recording
Motion picture machines
878   General works
880   Motion picture cameras. Cinematograph
      Electronic cameras. Television cameras
882   General works
882.3   Camcorders
   Cf. TK6655.V5 Television equipment
   Cf. TR896+ Home video photography
882.5   Television camera operation
883.A-Z   Special makes of motion picture cameras, A-Z
883.A77   Arriflex
883.B6    Bolex
883.D4    De Jur
883.P36   Panaflex
883.R43   Red One
885   Other special machines
   Including kinetoscope, photochronograph, etc.
Motion picture film
886   General works
886.2   Processing of exposed film
886.3   Preservation
886.5   Splicing
886.7   Dubbing
886.9   Titling
   Cf. PN1995.9.C65 Credit titles
   Cf. PN1995.9.T57 Titles of motion pictures
887   Catalogs, etc.
889   Classification
890   Projection
891   Lighting for motion pictures
   Including lighting for video recording
   For lighting for television broadcasting see PN1992.8.L5
   Cf. TR590+ Lighting
Applied cinematography
892   General works
892.4   Artistic cinematography
892.7   Educational cinematography
   Cf. LB1044 Audiovisual education
Scientific cinematography
893   General works
(893.2)   Medical cinematography
   Nature cinematography
893.4   General works
893.5   Wildlife cinematography
893.8   Underwater cinematography
894   Industrial cinematography
   Commercial cinematography
Cinematography. Motion pictures. Video recording

Applied cinematography

Commercial cinematography -- Continued

General works

Freelance cinematography

Advertising cinematography

Fashion cinematography

Newsreel cinematography

Cf. PN4784.M6 Motion-picture journalism

Documentary cinematography

Cf. PN1995.9.D6 Drama

Sports cinematography

Family cinematography. Amateur cinematography. Home video photography

General works

Vacation and travel cinematography

Cineradiography

Sound motion pictures

Animated motion pictures

Cf. NC1765+ Motion picture cartoons

General works

Stop-motion animation

Computer animation

General works

Special software, A-Z

3ds max

Adobe After effects

Adobe Animate CC

Adobe Edge animate

Blackmagic Fusion

Blender

Camtasia Studio

Flash

Maya

Scratch

Toon Boom animate

Machinima

Morphing

Rigging

Motion pictures for television

Cf. PN1992.63 Drama


Editing of motion pictures

General works

Time code

Industrial reproduction

General works

Enlargements

Reductions

Direct reproductions on same scale

General works

Processes for reproducing working drawings, plans, etc.

General works

Blue processes. Blueprints

Black processes

Photomechanical processes

General works
Photomechanical processes -- Continued
927 Special applications. Book illustration, etc.
   Collotype processes
930 General works
933 Albertype
935 Autotype
937 Heliotype
   Photolithography
940 General works
950 Aluminium process
955 Photozincography
960 Photoxylography
970 Photoengraving. Relief processes
   Cf. TS171.95 Three-dimensional printing
975 Halftone process
976 Mezzograph
977 Color processes
   Cf. TR510+ Color photography
980 Photogravure. Heliogravure. Intaglio process
   Gelatine relief processes
990 Photogalvanography
995 Woodburytype. Photoglyptie
997 Stannotype
(1010) Phototypesetting
   see Z253.2
   Electrophotography
1035 General works
   Electrostatic printing
1042 General works
1045 Xerography
1050 Ferromagnetography
Manufactures
Cf. HD9000+ Economics
Cf. HF5686.M3 Accounting
Cf. TP1+ Chemical technology
Cf. TT1+ Handicrafts
1  Periodicals, societies, etc.
5  Congresses
Museums and local exhibitions see T180+
Exhibitions, national and international see T391+
7  Collected works (nonserial)
9  Encyclopedias and dictionaries
Directories see T11.95+
15  History
21-127 Country divisions (Table T1a)
   Add country number in table to TS0
   Cf. T21+ Technology (General)

Biography
139  Collective
140.A-Z  Individual, A-Z
General works
144  Early to 1800
145  1800-
146  Juvenile works. Popular works
147  Pictorial works
Workshop manuals, etc. see TT153+
Machinists' manuals see TJ1165
Tables, receipts, etc. see T49
148  Addresses, essays, lectures
149  General special
Production management. Operations management
   Including factory management
155.A1  Periodicals, societies, etc.
155.A2-Z  General works
Study and teaching see T56.4+
Manufacturing personnel
   Cf. HF5549+ Personnel management
   Cf. T55+ Plant safety
   Cf. TA158+ Industrial technicians
155.4  Plant supervisors
155.5  Foremen
Data processing, CAD/CAM systems
155.6  General works
155.63  Computer integrated manufacturing systems
155.65  Flexible manufacturing systems
155.67  Parallel kinematic machines
155.7  Environmental aspects
Control of production systems
155.8  General works
Quality control
   Cf. TJ245.5 Quality control of machinery
156.A1  Periodicals, societies, etc.
156.A2-Z  General works
Standards
156.16  General works
156.17.A-Z  Special, A-Z
156.17.I86  ISO 9000 Series standards
Production management. Operations management
Control of production systems
Quality control
Standards
Special, A-Z -- Continued

156.17.S59
Six Sigma
Inspection
156.2
General works
156.25
Grading
156.4
Acceptance sampling
156.6
Quality assurance
156.8
Process control
  Cf. TP155.75 Chemical process control

Production control
  Cf. HF5415.2 Market research
  Cf. TS176+ Production planning
157.A1
Periodicals, societies, etc.
157.A2-Z
General works
157.4
Just-in-time systems
  Scheduling
    Cf. HD69.T54 Industrial management
157.5
General works
157.7
Gantt charts
158
Critical path analysis
158.2
PERT
158.4
Line of balance technique
158.6
Automatic data collection systems

Inventory control
  Cf. HD39.5 Industrial procurement
  Cf. HD40 Inventory policy
  Cf. HD40.7 Surplus property
  Cf. HF5484+ Warehousing and storage
160
General works
161
Materials management. Industrial ecology
162
Economic lot size. Economic order quantity
163
Stockkeeping
  Cf. TS189.6 Storerooms. Warehouses

Cost control
  Cf. HD47.3 Economics
  Cf. TA177.4+ Engineering economy
165
General works
166
Estimating
167
Manufacturing costs
  (167.5)
  Break-even point
    see HD47.25
168
Value analysis. Value engineering
169
Waste control

Product engineering
  Cf. T59+ Standardization
  Cf. TS195+ Packaging
170
General works
170.5
Environmental aspects

Product design. Industrial design
171.A1
Periodicals, societies, congresses, etc.
  Museums, exhibitions of local societies see T179+
Production management. Operations management

Product engineering

Product design. Industrial design -- Continued

Exhibitions, national and international see T391+
Special countries and designers see TS21+

171 A5-Z
General works
171.4
General special
171.44
Study and teaching. Schools
171.55
Mass customization
  Including configuration management of products
171.57
  Makerspaces
171.6
  Pictorial works
171.8
  Prototyping
171.9
  Statistical methods
171.95
  Three-dimensional printing
  Cf. TS183.25 Additive manufacturing

172
Tolerances
Cf. T50 Technical measurement

173
Reliability of industrial products
Cf. TA169+ Systems reliability

174
Maintainability

175
Product safety. Safety of consumer products
  Cf. T55+ Industrial safety. Industrial accident prevention
  Cf. TA169.7 System safety
175.5
Product testing

Manufacturing engineering. Process engineering

Including manufacturing planning, production planning
Cf. HD58 Plant location

176
General works

177
Plant design. Factory planning
177.3
Plant size. Factory size
  Plant layout
178
General works
178.2
Batch production
  Production lines. Assembly line processes
178.4
General works
178.5
Line balancing
178.7
Operation sequence analysis

Materials handling

180
General works
180.3
Machinery
180.5
Loading and unloading
  In-plant transportation
180.6
General works
180.8 A-Z
  Special materials, A-Z
180.8 B8
  Bulk solids

Planning for machinery. Equipment analysis
Cf. TS191.3 Installation of machinery

181
General works
181.3
Selection
181.4
Tool life
181.6
Replacement

Manufacturing processes
Cf. TJ1180+ Tool engineering

183
General works
183.25
Additive manufacturing
Production management. Operations management
Manufacturing engineering. Process engineering
Manufacturing processes -- Continued
Process planning
183.3
General works
183.6
Make-or-buy decisions
183.8
Remanufacturing
Plant engineering
Cf. T55+ Plant safety
Cf. T59.77 Working environment
Cf. TD895+ Factory sanitation
Cf. TD896+ Factory waste disposal
Cf. TH9445.M4+ Fire prevention in factories
Cf. TH9745.F3 Plant protection
184
General works
186
Factory buildings. Industrial buildings
Cf. NA6396+ Architecture
Cf. TH4511+ Factory construction
187
Plant utilities
For specific utilities, see the utility, e.g. TH7392.M6 Heating of mills and factories
188
Employee facilities and buildings
Plant service facilities
189
General works
189.3
Toolrooms and cribs
189.6
Storerooms. Storage facilities. Warehouses
Plant grounds
190
General works
190.5
Industrial landscape architecture
Machinery and equipment
191
General works
191.3
Installation
191.6
Catalogs
191.8
Industrial robots
Cf. TJ210.2+ Robots (General)
192
Plant maintenance
193
Plant housekeeping
194
Plant performance monitoring
Packaging
For packaging of special products, see the product, e.g. TP374 Packaging of food
Cf. HF5770.A1+ Shipping of merchandise
Cf. TA1215 Containerization of freight
195.A1
Periodicals, societies, congresses, etc.
195.A2
Dictionaries and encyclopedias
195.A3
Directories
195.A4A-.A4Z
Special companies. By name, A-Z
195.A5-Z
General works
195.2
General special
195.4
Design
195.6
Standards and specifications
195.8
Testing
Management
196
General works
196.2
Costs
196.4
Machinery
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196.6
General works
Packaging

Labeling -- Continued

196.7
	 Printing
197
	 Handling
197.5
	 Containers (General)
198.A-Z
	 Special containers and packaging methods, A-Z
198.A3
	 Aerosols
198.B3
	 Bags
198.B6
	 Boxes
		 Cf. TS900 Box making
198.C3
	 Cans
198.C33
	 Capsules. Microencapsulation
198.C46
	 Child-resistant packaging
198.F55
	 Flexible packaging
198.I58
	 Insect-resistant packaging
		 Microencapsulation see TS198.C33
198.P7
	 Pressure packaging
198.W7
	 Wrapping

Materials

198.2
	 General works
198.3.A-Z
	 Special materials, A-Z
		 Prefer TS198
198.3.A3
	 Adhesives. Tapes
198.3.C6
	 Coatings
198.3.F5
	 Films. Foils
198.3.G5
	 Glass
198.3.M4
	 Metal (non-foil)
198.3.P3
	 Paper. Paperboard
198.3.P5
	 Plastics (non-foil)
		 Tapes see TS198.3.A3
198.3.T5
	 Textile fabrics
198.3.W6
	 Wood

Packaging for protection from mechanical damage
	 Including packing for shipment

198.5
	 General works
198.6.A-Z
	 Special protective materials and shipping containers, A-Z
		 Prefer TS198
198.6.B3
	 Barrels
198.6.C6
	 Conex containers
198.6.C7
	 Crates
198.6.C8
	 Cushioning
198.6.D7
	 Drums
198.6.E9
	 Excelsior
198.6.P3
	 Pallets

Packaging for protection from exposure to harmful environments

198.7
	 General works
198.8.A-Z
	 Special environments, A-Z
198.8.C6
	 Corrosion
198.8.F8
	 Fungi
198.8.M6
	 Moisture

199
	 General catalogs
Metal manufactures. Metalworking
	 Including metal forming and working

200
	 Periodicals, societies, etc.
203
	 Directories
204
	 Dictionaries and encyclopedias
Metal manufactures. Metalworking -- Continued

205
   General works
   Cold working

207
   General works
207.3.A-Z
   Special topics, A-Z
207.3.C65
   Cold roll forming
207.3.P44
   Peening
      Including shot peening, glass shot peening, hammer peening, laser peening, water jet
      peening, etc.

209
   Heating of metals
      Cf. TS325 Heating of steel

209.5
   Hot working

210
   Handbooks, tables, etc.

213
   General special

214
   Scrap metals

215
   Metalworking machinery
      Cf. TJ1180+ Machine and hand tools
   Machining see TJ1180+
   Forging. Drop-forging
      Cf. TT218+ Blacksmithing

225
   General works
   History

225.2.A1
   General works
225.2.A5-Z
   By region or country, A-Z

226
   Joining of metals
   General works
   Bonding (Metal finishing) see TS718
   Brazing (Handicrafts) see TT267
   Fasteners see TJ1320+
   Riveting (Iron and steel work) see TA891
   Riveting (Machine shop practice) see TJ1325
   Sealing (Machinery) see TJ246
   Soldering (Tinsmithing) see TS610
   Soldering (Handicrafts) see TT267
   Welding
      Cf. TA492.W4 Welded joints
      Cf. TT211 Welding in mechanical arts

227.A1
   Periodicals, societies, etc.
227.A3-Z
   General works
227.2
   General special
227.3
   Hard-facing
227.4
   Directories
227.5
   Dictionaries and encyclopedias
   Study and teaching
227.53
   General works
227.55
   Examinations, questions, etc.
227.6
   Research
227.7
   Vocational guidance
227.8
   Safety measures
228.A1
   Gas welding. Oxyacetylene welding
      Periodicals, societies, etc.
228.A2-Z
   General works
228.2
   Oxygen cutting
228.3
   Dissimilar welding
(228.4-.7)
   Electric welding, arc welding, resistance welding
      see TK4660
Metal manufactures. Metalworking
Joining of metals
Welding -- Continued
(228.8)
Electric cutting
see TK460.5

228.9
Pressure welding

228.92
Ultrasonic welding

228.95
Laser welding

228.96
Explosive welding

Casting. Foundry work
Including general foundry work, and iron and steel founding
For the founding of other special metals see TS551+
For the founding of nonferrous metals see TS375

228.99
Periodicals, societies, etc.

229
Directories of foundries

229.3
Dictionaries and encyclopedias

History

229.5.A1
General works

229.5.A5-Z
By region or country, A-Z

230
General works

230.5
Addresses, essays, lectures

231
Cupola furnaces

Cf. TN715 Blast furnaces

233
General special
Including automation

234
Specifications

235
Handbooks, tables, etc.

236
Castings

237
Foundry equipment and supplies. Catalogs

238
Foundry management. Estimating, etc.
Including safety measures

239
Diecasting

240
Patternmaking
For patternmaking for sheet metals see TS250
For patternmaking for tin see TS600+
For patternmaking for copper see TS620+

Molding. Coremaking

243
General works

243.5
Molding materials. Molding sand

245
Powder metallurgy processes and manufactures
Cf. TN695+ Metallurgy

247
Rapid solidification processing

248
Semisolid processing

250
Sheet metalwork
For tinsmithing see TS600+
For coppersmithing see TS620+

253
Metal stamping
Including punch and die work, press-tool work, diemaking, etc.
Cf. TJ1255+ Punching machinery

255
Extrusion of metals

256
High energy forming

257
Explosive forming

260
Leaf metals

Wiremaking
Cf. TS1787 Wire rope

270.A1
Periodicals, societies, etc.
Metal manufactures. Metalworking
Wiremaking -- Continued

270.A2-Z
General works

271
Barbed wire
Cf. S790+Fences

273
Wire screens
Cf. TH2276 Screens

275
Sieves

277
Valves (General)
For special applications, see the field of application, e.g. TD491 Water distribution systems;
TJ352+ Steam boiler safety valves; TL625.V3 Balloon valves

Pipes and tubes

280
General works

282
Catalogs

283
Pressure vessels
Cf. TA660.T34 Tanks. Pressure vessels (Structural engineering)

285
General catalogs of metal manufactures
Iron and steel
Cf. HD9510+Economics

300
Periodicals, societies, etc.
Exhibitions

300.5.A1
General works

300.5.A2-Z
By region or country, A-Z
Subarrange each country by Table T4b

301
Directories

302
Dictionaries and encyclopedias
History see TN703
Special countries
Cf. TN704.A+ Metallurgy
United States

303
General works

303.5
Biography

304.A-Z
Other countries, A-Z

305
General works

307
General special
Including patents

309
Catalogs
Specifications see TA466

320
Steelworking. Tool steel

325
Heating of steel

330
Steel plants
Including technical descriptions, histories, etc.

330.A1
Collective

330.A2-Z
Individual, A-Z

340
Rolling of metals. Rolling mills and machinery

350
Structural iron and steel
Cf. TA685 Pocketbooks, tables, etc.

360
Sheet iron and steel
Steel pens see TS1263

Nonferrous metals (General)

370.A1
Periodicals, societies, etc.

370.A2-Z
General works

371
General special

372
Catalogs

375
Founding. Casting
Special plants
Metal manufactures. Metalworking
Nonferrous metals (General)
Special plants -- Continued

377.A1
Collective

377.A2-Z
Individual, A-Z

Cutlery

380
General works

380.3
Biography

380.4.A-Z
Collective

381
Individual, A-Z
Scissors and shears (Hand)

Hardware

Cf. HD9745 Economics
Cf. TH5618 Carpenters' tools
Cf. TH6299 Plumbers' tools
Periodicals see TS200

400
General works

403
Directories

405
Catalogs

408
Furniture
Including steel, iron, other metal
Cf. TS879.2+ Lumber and woodwork

410
Scales (Weighing instruments)

420
Safes

Cf. TH9735 Security in buildings

425
Stoves and ranges
Cf. TX657.S3+ Home economics
Miscellaneous articles of iron and steel
Including chains, nails, etc.

440
General works

445
Catalogs

Instrument manufacture
Cf. Q184+ Scientific instruments and apparatus
Cf. TA165 Engineering instruments

500
General works

510
Optical instruments. Optomechanics
Periodicals, societies, congresses, etc.

511.A-Z
By region or country, A-Z
Subarrange each country by Table T4a

512.A-Z
Special companies, A-Z

513
General works

514
General special

515
Standards and specifications

516
Catalogs

517
Preparation of optical surfaces
Including grinding and polishing

517.2
Optical coatings

Lenses

517.3
General works

517.5.A-Z
Special types of lenses, A-Z

517.5.A86
Aspheric lenses

517.5.C38
Catadioptric systems

517.5.P5
Mirror lenses see TS517.5.C38

517.5.P5
Plastic lenses

518
Liquid crystal devices
Metal manufactures. Metalworking -- Continued

Locksmithing

Cf. TH9737 Building protection equipment

519
Periodicals, societies, etc.

519.5
History

520
General works

521
General special

525
Lock picking

529
Catalogs of locks

530
Catalogs of keys

531
Handcuffs and other metal restraints

531.5
Padlocks

Firearms. Guns

Cf. NK6900+ Decorative arts

532
Periodicals, societies, etc.

532.15
Dictionaries and encyclopedias

532.2.A1
Museums, Exhibitions

532.2.A2-Z
By region or country, A-Z

Subarrange each country by Table T4b

532.4
Collectors and collecting

533
General works

533.2
Special countries

United States

533.3.A-.W
By state, A-W

533.4.A-Z
Other regions or countries, A-Z

Biography

533.6
Collective

533.62.A-Z
Individual, A-Z

534
General works

534.5
General special

534.7
Catalogs

535
Gunsmithing

Cf. HD9743 Economics

Cf. SK274+ Hunting

Cf. UD380+ Military rifles, etc.

535
General works

535.2.A-Z
Special features and equipment, A-Z

535.2.G8
Gunstocks

535.2.H64
Holsters

535.2.L6
Locks

535.2.S46
Sights

For telescopic sights see TS535.2.T4

535.2.S5
Silencers

535.2.T4
Telescopic sights

535.4
Maintenance and repair

535.8
Muzzle-loading firearms

Cf. TS536.6.M8 Rifles

Types of guns

536
Repeating firearms

Rifles

536.4
General works

536.6.A-Z
Special types, A-Z

536.6.B6
Bolt action
Metal manufactures. Metalworking
Firearms. Guns
Types of guns
Rifles
Special types, A-Z -- Continued

536.6.B76
Browning rifles
Cf. UD395.B8 Browning automatic rifle

536.6.F34
Falling block

536.6.G37
Garand rifle

536.6.K4
Kentucky rifle

536.6.L48
Leveraction

536.6.M8
Muzzle-loading

536.6.R44
Remington rifles

536.6.R84
Ruger rifle

536.6.S3
Schuetzen rifles

536.6.S5
Single shot

536.6.S64
Spencer rifle

536.6.W55
Winchester rifle

536.8
Shotguns

536.9
Submachine guns

537
Handguns
Including pistols and revolvers

537.5
Air guns

Ammunition
Cf. UF700 Military science
Cf. UF820+ Ballistics

538
General works

538.3
Handloading

538.4
Pinfire

538.5
Tear gas munitions

Watches and clocks
Cf. HD9999.C58+ Economics
Cf. NK7480+ Decorative art

540
Periodicals, societies, etc.

540.7
Dictionaries and encyclopedias
Museums. Exhibitions

541.A1
General works

541.A2-Z
By region or country, A-Z
Subarrange each country by Table T4b

History

542
General works

542.5
Juvenile works

543.A-Z
By region or country, A-Z

543.5.A-Z
Special clocks. By place, A-Z

544
Standard clock systems. Electric clocks

544.5
Specifications

544.8.A-Z
Biography, A-Z

545
General works

545.8
Study and teaching. Schools

545.9
Vocational guidance

546
Watchmakers' lathes and other machinery

547
Repairing and adjusting

548
General special
Including testing, reading the clock

549
Catalogs
Sundials see QB215
Metal manufactures. Metalworking -- Continued

Light metals
551
Periodicals, societies, etc.
552
General works
Aluminum
554
Cf. TN775 Metallurgy
Periodicals, societies, etc.
555
General works
556
Aluminum plants
557
Catalogs
560
Magnesium
562
Titanium
Brass and bronze
564
Periodicals, societies, etc.
565
General works
570
Bronze
573
Catalogs
Bells
For history and antiquities see CC200+
583
Early to 1800
585
1800-
588
General catalogs, etc.
For lists of the products of individual foundries and makers see CC206.A+
589
Doorbells
Cf. TK7108+ Electric bells
Tinplate
Cf. HD9539.T5+ Economics
590
General works
597
Tables, calculations, etc.
Cf. HF5716.T4 Economics
599
Catalogs
Tinsmithing
Cf. TT266+ Handicraft
600
General works
610
Soldering
619
Tinware and tinsmiths’ supplies
Coppersmithing, Copper founding
620
General works
625
Catalogs
640
Zinc
650
Alloys
Cf. TA483+ General properties of alloys
Cf. TN689+ Metallography
Metal finishing and surface treatment (General)
Cf. TT382+ Handicrafts
653.A1
Periodicals, societies, etc.
653.A2-Z
General works
653.5
General special
Including safety measures
654
Cleaning and pickling
654.5
Electrolytic polishing
655
Metallizing. Metal spraying
657
Calorizing
660
Galvanizing and tinning
662
Electroless plating
Metal manufactures. Metalworking
Metal finishing and surface treatment (General) -- Continued
  Electroplating. Electrometallurgy
  670.A1  Periodicals, societies, etc.
  670.A2-Z  General works
  671  Pulse plating
  672  Plating baths
  675  Electroplated ware. Catalogs
  678  Gold plating
  680  Silver plating
  690  Nickel plating
  692.A-Z  Other metals, A-Z
  692.A5  Aluminum
  692.C18  Cadmium
  692.C4  Chromium
  692.C57  Cobalt
  692.C6  Copper
  692.I7  Iron
  692.P55  Platinum
  692.P56  Platinum group
  692.R5  Rhodium
  692.T5  Titanium
  692.T8  Tungsten
  692.Z5  Zinc
  693  Alloys
  Anodic oxidation
  694  General works
  694.2  Aluminum
  Vapor-plating. Chemical vapor deposition
  695  General works
  695.15  Plasma-enhanced chemical vapor deposition
  695.2  Ion plating
  695.25  Ion implantation
  695.3  Boriding
  695.5  Siliconizing
  695.7  Sulfonitriding
  695.9  Refractory coating
  696  Phosphate coating
  698  Painting and lacquering
  699  Powder coating
  Enameling
    Cf. TT382.6 Handicrafts
  700  General works
  705  Catalogs of enameled ware
  710  Coloring
  715  Gilding. Silvering. Bronzing
    Cf. TT380 Mechanic trades
  718  Bonding
    Including rubber to metal bonding
  719  Printing
Precious metals. Gold and silver work. Jewelry
  Cf. HD9536 Economics
  Cf. NK7100+ Decorative art
  Cf. NK7210 Hallmarks
  720  Periodicals, societies, etc.
  722  Dictionaries and encyclopedias
Metal manufactures. Metalworking
Precious metals. Gold and silver work. Jewelry -- Continued

723
History

725
General works

729
General special
Including alloys, tables, calculations, recovery of wastes

Silversmithing

730
General works

735
Silverware, etc. Catalogs
Jewelry
Cf. HD9747 Jewelry industry
Cf. TS759 Jewelers' catalogs
Cf. TS760 Jewelers' supplies
Cf. TT212 Jewelry craft

740
General works
Precious stones. Gems
Biography

747
Collective

748
Individual, A-Z

General works

750
Early to 1800

752
1800-

752.5
Gem cutting
Special
Diamonds

753
General works

753.5
Diamond cutting

755.A-Z
Other special, A-Z

755.A5
Amber

755.E5
Emeralds

755.J34
Jade

755.O73
Opals

755.P3
General works

755.P4
Cultured pearls

755.R82
Rubies

755.T8
Turquoise

756
General special

757
Trade publications

758
Directories

759
Jewelers' catalogs

760
Jewelers' supplies

761
Emblems, badges, etc.

770
Platinum
Stonework
Cf. NK8700+ Decorative arts

780
General works

788
Monuments, tombstones, tablets, etc.

Glass manufacture see TP845+
Plastic manufactures see TP1101+
Wood technology. Lumber
Cf. HD9750+ Economics
Cf. SD1+ Forestry
Cf. TA419+ Engineering materials

800
Periodicals

801
Societies
Wood technology. Lumber -- Continued

802
  Congresses
803
  Directories
804
  Dictionaries and encyclopedias
  History
    United States
      General works
805
    806.A-.W Special states, A-W
810.A-Z Other countries, A-Z
815.A-Z Special corporations, mills, etc., A-Z
820 General works
821 Juvenile works
825 Inspection, grading, etc. Handbooks
835 General special
  Including utilization, handling, standards, etc.
836 Catalogs
837 Drying of lumber. Lumber kilns. Seasoning
Lumberyards and sheds see TH4485

Wood products. Furniture
  Including industrial woodworking
  Cf. HD9773 Economics
  Cf. TT180+ Arts and crafts
840 Periodicals, societies, etc.
842 Directories
  History and special countries see TS805+
  General works
843
847 Tables, calculations, etc.
850 Machinery. Sawmills. Planing mills
851 Care of saws, saw sharpening, etc.
  Cf. TJ1235 Saw sharpening, etc.
852 General special
853 Catalogs
857 Bonding. Wood adhesives
858 Formaldehyde release
868 Compressed wood
869 Laminated wood
870 Veneers and veneering. Plywood
875 Fiberboard, particle board, etc.
  Cf. TH1555 Fiberboard
878 Millwork. Planing-mill products
  Cf. TH1151+ Architectural woodwork
Furniture
  Cf. NK2200+ Decorative arts
  Cf. TP1185.F8 Plastic furniture
  Cf. TS408 Metal furniture
  Cf. TT194+ Arts and crafts
  Periodicals see TS840
880 General works
  Juvenile works see TS821
  Exhibitions
882.A1 General works
882.A2-Z By region or country, A-Z
    Subarrange each country by Table T4b
    Directories see TS842
885 General special
Wood technology. Lumber
Wood products. Furniture
Furniture -- Continued

886
Finishing
Cf. TT199.4 Handicrafts
886.5.A-Z Special types of furniture, A-Z
886.5.B4 Beds and bedsteads
886.5.C45 Chairs
Including rocking chairs
886.5.C74 Cribs
886.5.T3 Tables
887 Catalogs
889 Fixtures for stores, etc.
890 Cooperage. Barrels. Staves
900 Box making
Cf. TS198.B6 Packaging
903 Miscellaneous manufactures of wood
905 General catalogs of woodwork
908 Cork industry
Cf. TP659.A1+ Bottling
910 Willowware. Basketmaking
Cf. NK3649.5+ Decorative arts
Cf. TT879.B3 Handicrafts
913 Miscellaneous hand-woven products
Including baskets, trays, lampshades, etc.
915 Wire-grass industry
Including Crex Carpet Company products
Cf. TS1747+ Fiber industries

Chemical processing of wood
Including wood from trees and other woody plants
920 Periodicals. Societies. Collections
921 Congresses
922 Dictionaries and encyclopedias
Special countries
924 United States
926.A-Z Other countries, A-Z
928 General works
930 General special
Wood composition and chemistry
932 General works
933.C4 Cellulose
933.L5 Lignin
933.S2 Salt
934.A-Z Chemical properties of individual timbers and woods, A-Z
936 Processing methods
Cf. TP997 Destructive distillation of wood
937 Management
937.2 Special products
Charcoal see TP331
Fiberboard, particle board, etc. see TS875
Paper see TS1080+
Rayon see TS1544.R3
Tannins see TS985
Turpentine see TP977+
Woodpulp see TS1171+
Leather industries. Tanning
   Cf. HD9780 Economics
   Cf. TT290 Handicraft
940
Periodicals, societies, etc.
Exhibitions
943.A1
   General works
943.A2-Z
   By region or country, A-Z
      Subarrange each country by Table T4b
945
Directories
947
Dictionaries and encyclopedias
History
950
   General works
951
   Origins
952
   Medieval
954
   Modern
      Special regions or countries
         United States
955
   General works
956.A-.W
   States, A-W
957.A-Z
   Europe, A-Z
959.A-Z
   Other regions or countries, A-Z
965
   General works
965.5
   Juvenile works
967
   General special
      Including chemistry, testing, hides and skins
968
Study and teaching. Schools
970
   Patent leather
980.A-Z
   Other special kinds of leather, A-Z
980.B82
   Buckskin
980.R8
   Russia leather
980.S6
   Sole leather
980.U6
   Upholstery leather
980.U7
   Uppers
980.V6
   Vici kid
985
Tanning materials. Tannins
986
   Dyes and dyeing
Boot and shoemaking
   For local see TS955+
      Cf. HD9787 Economics
      Cf. TT678.5 Handicraft
989
Periodicals, societies, etc.
   Directories see TS945
   Dictionaries see TS947
990
   General works
1000
   History
      Cf. GT2130 Footwear (Costume)
1005
   Machinery
1007
   Finishing processes
1015
   Hygienic shoes
      Cf. RD757.S45 Orthopedic shoes
1017
   Athletic shoes
1020
   General special
   Repairing
1023.A1
   Periodicals, societies, etc.
1023.A2-Z
   General works
1025
   Catalogs
Leather industries. Tanning -- Continued

Harness. Saddles

1030
Periodicals, societies, etc.
1032
General works
1033
Catalogs
1035
Saddlery hardware. Harness hardware
    Including catalogs
1040
Other kinds of leatherwork
    For luggage see TS2301.L8
    Cf. NK6200+ Leather (Decorative arts)
1043
Leatherwork machinery. Catalogs
    Imitation leathers
1045
General works
1047.A-Z
    Special, A-Z
1050
Articles of horn, ivory, bone, etc.
    Cf. NK5800+ Ivory (Decorative art)
    Cf. NK6020+ Horn and bone (Decorative art)
    Cf. TT288 Bone and horn craft
Furs
    Cf. HD9944 Economics
    Cf. TT525 Fur garments
1060
Periodicals, societies, etc.
1061
General works
1063
Quality control, grading, etc.
1066
Directories
1067
Catalogs
1070
Artificial fur

Animal fibers see TS1545+

Paper manufacture and trade
    Cf. HD9820+ Economics
    Cf. Z45 Writing instruments, including paper
    Cf. Z112 Paleography materials
    Cf. Z237 Watermarks
    Cf. Z247 Practical printing
1080
Periodicals, societies, congresses, etc.
Exhibitions
1083.A1
    General works
1083.A2-Z
    By region or country, A-Z
        Subarrange each country by Table T4b
1085
Dictionaries and encyclopedias
1088
Directories
History
1090
General works
    Ancient (Papyrus, etc.) see Z105+
1091
Origins (Arab, Chinese, etc.)
    Medieval
1092
General works
1093.A-Z
    Special countries, A-Z
    Modern
1094
General works
1095.A-Z
    Special countries, A-Z
1096.A-Z
    Special companies, A-Z
        Cf. TS1210+ Catalogs
1098.A-Z
    Biography, A-Z
    General works
1104
    Early to 1800
Paper manufacture and trade
   General works -- Continued

1105
   1800-
1105.5
   Juvenile works
1107
   Quality control
1109
   General special
      Including testing, waste prevention, use of cornstalks, hemp, etc.
1111
   Study and teaching. Schools
1115
   Watermarks, trademarks, etc. (Modern)
      Cf. Z237 Watermarks of early printers

Papermills and their management

1116
   General works
1116.2
   Water supply
1116.6
   Paper handling. Transportation
      Machinery
1117
   General works
1117.6
   Automation
1118.A-Z
   Special manufacturing processes and equipment, A-Z
1118.C34
   Calenders and calendering
      Coloring see TS1118.D9
1118.C8
   Cutting and cutting machinery
1118.D42
   Deacidification
1118.D7
   Drying and drying machinery
1118.D9
   Dyes and dyeing. Coloring
1118.F4
   Felts
1118.F5
   Finishing. Coatings
      Folding see Z261
1118.P74
   Pressing
1118.P85
   Pulp consistency transmitters
1118.R4
   Refining
1118.S5
   Sizing
1118.S85
   Stock preparation
1120
   Chemistry of paper manufacture
1120.5
   Paper recycling
1121
   Paper characteristics, properties, etc.
   Paper types. Special papers

1124
   General works
1124.5
   Handmade
1125
   Papyrus
      Cf. Z45 Calligraphy materials
      Cf. Z112 History of writing
1127
   Fire resistant paper
1129
   Korean paper
1130
   Japanese paper
   (1130.2)
   Marbled papers
      see Z271.3.M37
   Paperboard
      Including cardboard, pasteboard
   General works
1135
   Corrugated paperboard
1138
   Papier mâché
      Cf. TT871 Papier-mâché craft
1155
1160
   Newsprint
1165
   Parchment
1166
   Straw paper
1167
   Reproduction paper
Paper manufacture and trade

Paper types. Special papers -- Continued

1168
Tissue paper

1169
Xuan zhi

Woodpulp industry. Pulping processes

Cf. HD9750+ Economics

1171
Periodicals, societies, congresses, etc.

1172
Annuals. Directories

1173
United States

1174.A-Z
Other countries, A-Z

1175
General works

1176
General special

1176.4.A-Z
Special pulps, A-Z

1176.4.A8
Aspen

1176.4.B3
Bamboo

1176.4.E9
Eucalyptus

1176.4.H3
Hardwoods

1176.4.K44
Kenaf

1176.4.L3
Larch

1176.4.P5
Pine

1176.4.S7
Spruce

1176.4.T7
Tropical woods

1176.6.A-Z
Special aspects, A-Z

1176.6.A5
Analysis of pulp

1176.6.B56
Biotechnology

1176.6.B6
Bleaching of pulp

1176.6.E7
Equipment and supplies

1176.6.E79
Ethanol pulping process

Kraft processes see TS1176.6.S9

1176.6.M4
Mechanical process

1176.6.S5
Smelt-water explosions

1176.6.S6
Soda process

1176.6.S9
Sulfate process

1176.6.S915
Sulfate waste liquor

1176.6.S92
Sulfite liquor

1176.6.S93
Sulfite process

1176.6.T4
Testing of pulp

1176.6.W36
Washing

1176.6.W6
Wood chips

1177
Articles manufactured from wood pulp

Cf. TS1155 Papier mâché

Artificial flowers see TT890+

Other articles of paper

Including bags, paper boxes, etc.
For folding and folding machinery see Z261

1200.A1
Periodicals, societies, etc.

1200.A2-Z
General works

Catalogs of paper and pulp mill equipment and supplies

Including bags, paper boxes, etc.

1205.A1
Periodicals, societies, etc.

1205.A2-Z
General works

Catalogs of paper manufacturers

Cf. TS1090+ History

1210
General works

1220
Sample books

Stationery
Paper manufacture and trade

Stationery -- Continued

1228
Periodicals, societies, etc.
Directories see TS1088

(1229)
Biography
see TS1098

1230
General works

1233
General special
Including history and antiquities

1238
Trade publications other than catalogs

1240
Catalogs

1250
Blank books

1251
Copybooks

1260
Ruling-machinery
Pens
Including catalogs

1262
General works

1263
Steel pens

1265
Gold pens

1266
Fountain pens

1267
Ball-point pens

1268
Pencils. Crayons
Including mechanical pencils

Textile industries
Cf. HD9850+ Economics
Cf. SB241+ Fiber plant culture

1300
Periodicals. Societies. Congresses

(1301)
Yearbooks
see TS1300

Museums. Exhibitions

1306.A1
General works

1306.A2-Z
By region or country, A-Z
Subarrange each country by Table T4b

1309
Dictionaries and encyclopedias

1312
Directories

History

1315
General works

1316
Ancient

1317
Medieval

1318
Modern

1321-1424.5 Special countries (Table T1b)
Add country number in table to TS1300

1425.A-Z Special corporations, mills, etc., A-Z
Biography

1439
Collective

1440.A-Z Individual, A-Z

General works

1444
Early to 1800

1445
1800-

1446
Elementary works

1449
General special
Including microscopy, testing, safety measures, yarn

1450
Standardization
Including thread numbers

1450.5 Production standards

1451
Handbooks, tables, etc.
Textile industries -- Continued

1463
   Vocational guidance
   Study and teaching

1465
   General works

1465.5
   Problems, exercises, etc.
   By region or country
       For individual institutions, see the state or country without further subdivision
       United States

1471
   General works

1472.A-Z
   By region or state, A-Z

1473.A-Z
   Other regions or countries, A-Z

1474
   Information services

1474.5
   Textile chemistry
       Cf. TP890+ Bleaching, dyeing, printing of textiles (Chemical technology)

1475
   Textile design
       Cf. NK8800+ Decorative arts
       Cf. TT851+ Textile decoration (Arts and crafts)

   Spinning
       Including preliminary processes
       Cf. TS1577 Cotton spinning
       Cf. TS1628 Woolen spinning
       Cf. TS1727 Hand spinning

1480
   General works

1483
   Machinery

1484
   Spinning wheel, distaff, etc.
   Carding and combing
       Cf. TS1578 Cotton carding
       Cf. TS1628 Wool carding
       Cf. TS1727 Flax spinning

1485
   General works

1487
   Machinery

1487.5
   Twisting and twisting machinery

1487.7
   Crimping

   Sizing

1488
   General works
   Cotton sizing see TS1580

   Weaving (Industrial)
       Cf. TT848+ Hand weaving

1490
   General works

1493
   Machinery. Looms
   Jacquard weaving
       Including jacquard looms

1510
   Finishing

1511
   Setting of textiles

1512
   Coating of fabrics

1512.5
   Electrostatic flocking
       Cf. TS1828+ Nonwoven fabrics

1513
   Crease-resisting process

1514
   Drying. Drying equipment

1515
   Mercerization

1517
   Mothproofing

1520
   Waterproofing
   Fireproofing see TP267

1525
   Textile machinery (General)
   Textile mills (Design and construction) see TH4521

   Textile supplies
Textile industries
Textile supplies -- Continued
1529
General works
1530
Catalogs
1535
Directories
Textile fibers
1540
General works
Vegetable
1541
General works
1542
Cotton
1543
Linen
1544.A-Z
Others, A-Z
1544.A5
Ambary hemp. Kenaf
1544.B3
Bast
1544.C4
Cellulose
1544.C6
Coconut fiber
1544.H4
Hemp
Cf. TS1733 Hemp manufactures
Kenaf see TS1544.A5
1544.M3
Marine fiber
1544.P55
Piña cloth
1544.R2
Ramie
Cf. SB259 Plant culture
1544.R3
Rayon
Cf. TS1688.A1+ Rayon manufactures
Animal
1545
General works
1546
Silk
1547
Wool
1548.A-Z
Others, A-Z
1548.C3
Camel’s hair
1548.H6
Horsehair
1548.M6
Mohair
1548.V5
Vicuna
Synthetic textile fibers
1548.2
Dictionaries and encyclopedias
1548.5
General works
1548.7.A-Z
Special, A-Z
1548.7.A25
Acrylic
1548.7.P57
Polyamide
1548.7.P58
Polysters
1548.7.P6
Polypropylene
1548.7.P63
Polyurethanes
1548.7.V5
Vinyl
Inorganic fibers
1549.A1
General works
1549.A3-Z
Special, A-Z
1549.A7
Asbestos
1549.G5
Glass
1549.G6
Gold
Cotton manufactures
Cf. HD9870+ Economics
Cf. SB245+ Cotton culture
1550
Periodicals, societies, etc.
(1551)
Yearbooks
see TS1550
Textile industries
  Cotton manufactures -- Continued
1555  Directories
       Exhibitions
1557.A1  General works
1557.A2-Z  By region or country, A-Z
     Subarrange each country by Table T4b
       History
1560  General works
1561  Ancient
1562  Medieval
1564  Modern
1565.A-Z  Special regions and countries, A-Z
1566.A-Z  Special companies. By name, A-Z
1570  Biography
1575  General works
1576  Elementary works
1577  Spinning
     Including preliminary processes
1578  Carding. Combing. Lapping
1579  Weaving
1580  General special
     Including finishing processes
1581  Handbooks, tables, calculations, etc.
1582  Cotton fabrics
1583  Cotton machinery
1585  Ginning, baling, etc.
1587  Cotton waste products
     Cf. TP996.C75 Chemical technology
     Cotton baling see TS1585
1590  Thread manufacture
Woolen manufactures
  Cf. HD9890+ Economics
  Cf. SF371+ Sheep culture
1600  Periodicals, societies, etc.
(1601)  Yearbooks
     see TS1600
1603  Directories
       Exhibitions
1606.A1  General works
1606.A2-Z  By region or country, A-Z
     Subarrange each country by Table T4b
       History
1610  General works
1611  Ancient
1612  Medieval
1614  Modern
1615.A-Z  Special regions or countries, A-Z
1620  Biography
1625  General works
1626  Elementary works
     Spinning and other preliminary processes
1627  General works
1628  Carding. Combing
1629  Weaving
Textile industries
Woolen manufactures -- Continued

1630  General special
    Including finishing processes, wool substitutes, etc.
1631  Handbooks, tables, calculations, etc.
1633  Woolen and worsted machinery
1634  Catalogs of woolen goods
1635  Artificial wool

Silk manufactures
    Cf. HD9910+ Economics
    Cf. SF541+ Sericulture
1640  Periodicals, societies, congresses, etc.
(1641) Yearbooks
    see TS1640
1643  Directories
    Exhibitions
1646.A1  General works
1646.A2-Z  By region or country, A-Z
    Subarrange each country by Table T4b
History
1650  General works
1651  Ancient
1652  Medieval
1654  Modern
1655.A-Z  Special regions or countries, A-Z
1660  Biography
1665  General works
1667  Spinning and other preliminary processes
1669  General special
1671  Handbooks, tables, etc.
1672  Silk machinery
1673  Catalogs
1675  Velvets
1676  Brocade
1677  Crepe
1680  Plush
1687  Cords, trimmings, passementerie, gimp, braids, etc.
    Artificial silk. Rayon. Celanese
1688.A1  Periodicals, societies, etc.
1688.A2  Directories
1688.A3-Z  General works

Flax, hemp and jute industries
    Cf. TS1540+ Fibers
    Cf. TS1784+ Cordage
    Cf. TS1795 Twine
1700  Periodicals, societies, etc.
1705  General works
1707  Tables, calculations, etc.
    Flax industries. Linen, etc.
    Cf. HD9930 Economics
1710  History
1715.A-Z  Special regions or countries, A-Z
1725  General works
1727  Spinning and other preliminaries
1728  Machinery
1730  Tables, calculations, etc.
Textile industries
   Flax, hemp and jute industries
      Flax industries. Linen, etc. -- Continued
   1731
      Catalogs of linen goods
   1733
      Hemp industries
   1735
      Jute industries, burlap, etc.

Other fiber industries
   1747.A-Z
      Special, A-Z
   1747.C6
      Coir
   1747.D3
      Date palm fiber
   1747.E8
      Esparto
   1747.H6
      Horsehair
   1747.K3
      Kapok
   1747.O3
      Oakum
   1747.R2
      Raffia
   1747.R3
      Ramie
   1747.R6
      Roselle
   1747.S5
      Sisal
   1747.S7
      Straw plaiting
      Wire grass see TS915

1750
   General special

Textile fabrics. Dry goods
   Cf. TT490+ Clothing manufacture
   1760
      Periodicals, societies, etc.
   1763
      Directories
   1765
      General works
   1767
      General special
   1768
      Catalogs
   1770.A-Z
      Special kinds of fabrics, A-Z
   1770.I53
      Industrial fabrics
   1770.S54
      Sheer fabrics
      Knit goods, hosiery, etc. see TT679+

Carpets, rugs, etc.
   Cf. NK2775+ Decorative art
   1772
      Periodicals, societies, etc.
   1773
      Directories
      Exhibitions
   1774.A1
      General works
   1774.A2-Z
      By region or country, A-Z
      Subarrange each country by Table T4b

History
   1774.4
      General works
   1774.6.A-Z
      Special regions or countries, A-Z
   1775
      General works
   1775.5
      General special
   1776
      Catalogs, etc.
      Rugs
      Cf. NK2775+ Art
   1777
      General works
   1778
      Oriental rugs
      Cf. NK2808+ Art
   1779.A-Z
      Other floor coverings, A-Z
   1779.G7
      Grass rugs
   1779.L5
      Linoleum
   1779.M2
      Matting. Straw, etc.
   1779.O5
      Oilcloth
Textile industries
Carpets, rugs, etc. -- Continued
1779.5
Carpet measuring, cutting, laying, etc.
1780
Tapestry
Cf. NK2975+ Art
Cf. TT849 Hand weaving
1781
Miscellaneous textile articles and products
Including bagging, shawls, towels, etc.
For artificial fur see TS1070
For flags see TS2301.F6
1782
Lace (Machine made)
Cf. HD9933 Trade
Cf. NK9400+ Decorative art
Cf. TT800+ Needlework
1782.5
Braid (Machine made)
1783
Embroidery (Machine made)
Cf. NK9200+ Decorative art
Cf. TT769+ Needlework
Miscellaneous fiber products
Cordage
1784
Periodicals, societies, etc.
1784.5
Directories
1785
General works
1787
Wire rope
1792
Sennit
1795
Twine
(1825)
Felt
see TS1830.F44
Nonwoven fabrics
1828
General works
1830.A-Z
By type of nonwoven fabric, A-Z
1830.F44
Felt. Felting
1830.N44
Needlepunch
1850
Other fiber products
1860
Tent and awning making
1865
Umbrellas and parasols
Rubber industry
Cf. HD9161 Economics
Cf. SB289+ Agriculture
1870
Periodicals, societies, etc.
1871
Conferences
Exhibitions
1872.A1
General works
1872.A2-Z
By region or country, A-Z
Subarrange each country by Table T4b
1875
Dictionaries and encyclopedias
1877
Directories
History
1880
General works
1885.A-Z
Special countries, A-Z
1890
General works
1891
Vulcanizing
1891.5
Machinery
1892
General special. Examination, testing, etc.
1893
Catalogs and other trade publications
1910
Rubber boots and shoes
Rubber industry -- Continued

1912
Rubber tires

1920
Other articles of rubber
  Including hand stamps, rubber bands, tubes, etc.

1925
Synthetic rubber. Elastomers

1927 A-Z
Special, A-Z

1927.C92
Cyclized rubber

1927.E86
Ethylene-propylene rubber

1927.S55
Silicone rubber

1930
Gutta-percha

1935
Balata

Miscellaneous industries
Animal products
  Cf. SK283.8 Field dressing and skinning of game

1950
Periodicals, societies, etc.

1953
Dictionaries and encyclopedias

1955
General works
Butchering. Slaughterhouses. Meat curing
  Class here technical works only
  For Judaism see BM720.S6+
  For moral and ethical aspects of eating meat see GT2868.55
  Cf. HD9410+ Animal industry
  Cf. RA578.A6 Slaughterhouses

Biography

1959
Collective

1959.5.A-Z
  Individual, A-Z

1960
General works

1962
Minor works
  Special countries
    United States

1963
General works

1964.A-.W
  States, A-W

1965.A-Z
  Cities, A-Z

1966.A-Z
  Other countries, A-Z

1967.A-Z
  Other cities, A-Z

1968
Poultry processing
  Fish processing see SH334.9+
  Furs see TS1060+
  Leather see TS940+
Meat-packing industries
  Cf. HD9410+ Economics
  Cf. TS2284+ Pet food industry

1970
General works

1971.A-Z
  By region or country, A-Z
    Subarrange each country by Table T4a

1973
Packinghouse equipment, etc.

1974.A-Z
  Special topics, A-Z

1974.B3
  Bacon

1974.C67
  Corned beef

1974.F5
  Flavoring, seasoning, etc.

1974.P67
  Pork

1974.S3
  Sausages

1975
Meat inspection
  Lard, tallow, etc.
    Cf. TP669+ Oils, fats, and waxes

1980
General works
Miscellaneous industries
Animal products
  Lard, tallow, etc. -- Continued
1981  Rendering apparatus
1982  Bone products
Carriage and wagonmaking
  Including sleighs and sleds
  Cf. HD9709.5 Economics
2001  Periodicals, societies, etc.
      Exhibitions. Museums
2003.A1  General works
2003.A2-Z  By region or country, A-Z
            Subarrange each country by Table T4b
2005  Directories
2010  History
2020  General works
2025  General special
      Carriage painting
2030  General works
2032  Scrolls and designs for carriage painters
2033  Catalogs of carriagemakers
2035  Carriage hardware
      Automobiles see TL1+
Cereals and grain. Milling industry
  Including flour
  Cf. HD9056 Economics
2120  Periodicals, societies, etc.
      Exhibitions
2123.A1  General works
2123.A2-Z  By region or country, A-Z
            Subarrange each country by Table T4b
2129  Directories
      History
2130  General works
2135.A-Z  By region or country, A-Z
            Under each country:
            .x  General works
            .x2A-.x2Z  By state, province, etc., A-Z
General works
2144  Early to 1800
2145  1800-
2149  General special
      Including moisture in grain
2155  Catalogs
      Cereal products see TP434+
      Feeds and feed mills see TS2284+
2159.A-Z  Milling and processing of individual cereals, A-Z
2159.C7  Corn
2159.R5  Rice
2159.S65  Sorghum
      Wheat see TS2120+
2160  Gloves
      Cf. HD9947 Economics
      Hats
      Cf. HD9948 Economics
      Cf. TT650+ Millinery
Miscellaneous industries

Hats -- Continued

2180
Periodicals, societies, etc.
Exhibitions

2181.A1
General works

2181.A2-Z
By region or country, A-Z
Subarrange each country by Table T4b

2182
Directories

2185
General works

2190
General special

2193
Renovating, cleaning, etc.

Tobacco industry
Cf. HD9130+ Economics

2220
Periodicals, societies, etc.

2225
Dictionaries and encyclopedias

2228
Directories

History

2230
General works

2234
Modern

2235.A-Z
Special places, A-Z

2240
General works

2249
General special
Including machinery, curing, testing, facts for smokers, enjoyment of smoking

2251
Tables, calculations, etc.

2255
Nicotine (Preparation, use, etc.)

2260
Cigars and cigarettes

2270
Pipes for smoking

2280
Smoking paraphernalia
Including lighters

2283
Catalogs of cigars, smoking paraphernalia, etc.

Animal feeds and feed mills. Pet food industry
Cf. SF94.5+ Animal nutrition
Cf. SF414 Pet feeding

2284
Periodicals, societies, etc.

2285
Congresses

2286
General works

2286.5
General special

2287
Patents

2288.A-Z
Special foods. Foods for special animals, A-Z

2288.C36
Cat food

2288.C45
Cereals

2288.D63
Dog food

2288.M4
Meat

2301.A-Z
Other industries, A-Z
Class here primarily catalogs of wares, especially articles not made of any one material
Audiovisual equipment

2301.A7
General works
Phonographs see TS2301.P3
Sound recording instruments see TS2301.S6
Baggage see TS2301.L8

2301.B4
Beads
Cf. TT860 Beadwork

2301.B5
Belts

2301.B8
Brushes and brooms

2301.B9
Buttons

2301.C3
Canes
Miscellaneous industries
Other industries, A-Z -- Continued

2301.C4
Catgut

2301.C5
Church supplies
  Cf. NK1657 Trade catalogs, etc.

2301.C75
Combs

2301.D4
Decalcomania

2301.F4
Feathers

2301.F6
Flags, banners, etc.

2301.H7
Hose
  Cf. TH9380 Firehose

2301.I6
Insignia

2301.I8
Isinglass

2301.L8
Luggage

2301.M3
Marking devices
  (2301.M8)
  Monuments, tombstones, tables, etc.
  see TS788

2301.N5
Notions

2301.N55
Novelties

2301.P2
Page turners

2301.P24
Palm products

2301.P3
Phonographs

2301.P5
Pins and needles

2301.S5
Skates

2301.S6
Sound recording instruments
  Cf. TK7881.4+ Electronic sound systems
  Cf. TS2301.P3 Phonographs

2301.S7
Sporting goods

2301.T5
Time stamps

2301.T7
Toys, etc.
  Cf. GV1218.5+ Games and amusements
  Cf. NK4891.3+ Dolls and dollhouses (Decorative arts)
  Cf. NK9509+ Toys (Decorative arts)
  Cf. TT174+ Handicrafts

2301.T9
Transfer pictures, etc.

2301.U5
Undertakers' supplies, etc.

2301.W3
Wax figures

2301.W5
Window shades
Handicrafts. Arts and crafts
Including mechanic trades
Cf. NK1+ Decorative arts
Cf. NK1135+ Arts and crafts movements
Cf. TH5011+ Building trades
Cf. TP1+ Industrial products (Chemical technology)
Cf. TS1+ Manufactures

1
Periodicals, societies, etc.
Exhibitions. Museums

6.A1
General works

6.A2-Z
By region or country, A-Z
Subarrange each country by Table T4b

7
Collected works (nonserial)

9
Dictionaries and encyclopedias
Communication of handicraft information

10
General works

11
Computer network resources
Including the Internet

12
Directories

14
Philosophy. Theory. Relation to other topics

15-127
History and country divisions (Table T1)
Add country number in table to TT0
Class here general works on the crafts as practiced in particular regions or countries. Also class here manuals on how to duplicate craft articles of particular regions or countries, including craft articles of particular ethnic groups. For example, class manuals on duplicating crafts of the Indians of North America in TT22.
For ethnological works on the crafts as practiced by the ethnic groups of particular regions, see GN575+ or the class numbers for particular groups in classes D-F.
For ethnological works about crafts of North American Indians, see E98.I5

Biography
139
Collective

140.A-Z
Individual, A-Z

General works

144
Early to 1800

145
1800-

149
General special

150
Study and teaching

151
Mending and repairing
Cf. NK4233 Ceramics
Cf. TH4817+ Home maintenance and repair
Cf. TX323 Care of the home

152
Workshops: Planning and maintenance
Workshop practice
Including use of workshop tools

153
General works

153.5
Power tools

153.7
Craft materials and supplies
Models and modelmaking
Cf. TT178 Miniature crafts

154
General works

154.5
Radio control systems

155
Handbooks, manuals, etc.
157 Special crafts treated collectively
   Including general works on craft projects and items to make
   Cf. SF413.5 Craft items for pets
   Cf. TT180+ Special crafts, by material
   Cf. TT699+ Textile arts and crafts
   Cf. TT855+ Decorative crafts

Juvenile works. Projects for boys
   Including projects for both girls and boys
   Cf. TT171 Handicraft for girls

159 Periodicals, societies, etc.

160 General works

   Manual training. Industrial arts training. School shops
   Cf. LB1594+ Industrial arts training in elementary schools
   Cf. LC1081+ Industrial education (Theory)
   Cf. LC2780.5 Industrial education of black people and African Americans
   Cf. T61+ Technology - Study and teaching

161 Periodicals, societies, etc.

Exhibitions

162.A1 General works
162.A2-Z By region or country, A-Z
   Subarrange each country by Table T4b

163 Directories

165 Textbooks

166.A-Z Special countries, A-Z

167.A-Z Special cities, A-Z
   Including special schools

168 Teaching methods

169 General works

170 General special

170 School shops

170.4 Safety measures

170.7 Equipment and supplies
   Including catalogs

171 Handicrafts for girls

Articles for children
   Cf. TT197.5.C5 Children's furniture

Toys
   Cf. GV1218.5+ Games and amusements
   Cf. LB1029.T6 Educational toys
   Cf. NK9509+ Decorative arts
   Cf. TS2301.T7 Toy manufacture

174 General works

174.3 Soft toys

174.5.A-Z Other special, A-Z

174.5.P3 Paper toys

174.5.S35 Scooters, skateboards, etc.

174.5.V43 Vehicles

174.5.W6 Wooden toys

174.7 Puppets
   For general works on puppetry, including manipulation of puppets, puppet plays, etc. see PN1972+
Articles for children -- Continued

Dolls
   Including paper dolls
   Cf. GV1218.5+ Games and amusements
   Cf. NK4891.3+ Decorative arts
   Cf. TS2301.T7 Doll manufacture

175
   General works
175.3
   Dollhouses
175.5
   Doll furniture
175.7
   Doll clothes
176
   Playground equipment
   Playhouses see TH4967
178
   Miniature craft
   Cf. TT154+ Models and modelmaking
Woodworking
   Cf. TH5601+ Carpentry and joinery
   Cf. TS840+ Manufactures of wood
180
   General works
185
   Elementary works, outline, syllabi, etc.
   Including amateurs' manuals
185.5
   Woodshops
186
   Tools and supplies
   Cf. TH5618 Carpentry tools
Sloyd
187
   General works
   Special schools see TT167.A+
188
   Models
189
   Balsa craft
190
   Bamboo work
190.5
   Cork craft
190.6
   Scrollwork
   Including jigsaw work, boxes, and other articles made with scroll saws
   For fretwork see NK9930
190.8
   Wood bending
191
   Plywood working
192
   Marquetry
Furniture
   Cf. TP1185.F8 Plastic furniture manufacture
   Cf. TS879.2+ Furniture manufacture
   Cf. TT175.5 Doll furniture
   Cf. TT213 Metal furniture
   Cf. TT297.5 Plastic furniture craft
194
   General works
195
   Amateurs' manuals
196
   Furniture design. Drawings
197
   Box furniture. Cabinetwork
197.5.A-Z
   Special, A-Z
197.5.B3
   Bars
197.5.B4
   Bedroom furniture
197.5.B6
   Bookcases
197.5.B68
   Boxes
197.5.B8
   Built-in furniture
197.5.C45
   Chairs
197.5.C5
   Children's furniture
197.5.C62
   Coffins
197.5.C65
   Computer furniture
Woodworking
Furniture
Special, A-Z -- Continued
197.5.C68 Countertops
197.5.D4 Desks
197.5.D5 Dining room furniture
197.5.E57 Entertainment centers
197.5.K57 Kitchen cabinets, kitchen furniture, etc.
197.5.L34 Lamps. Lighting devices
   Including candlesticks, chandeliers, sconces, etc.
   Cf. TK9921 Electricity for amateurs
   Cf. TT897.2 Decorative crafts
   Lighting devices see TT197.5.L34
197.5.L5 Living room furniture
197.5.L6 Loudspeaker cabinets
197.5.O9 Outdoor furniture
197.5.T3 Tables
197.5.T65 Toolboxes
   For wooden boxes in general see TT197.5.B68
197.5.W6 Workbenches
197.7 Wicker furniture
197.8 Rattan furniture
198 Upholstering
199 Repairing. Restoring
199.4 Finishing. Refinishing
Carving and whittling
   Cf. NK9700+ Decorative art
199.7 General works
199.75 Decoys
   Including painting
199.8 Pyrography. Woodburning
   Cf. NK8600+ Decorative art
200 General special
   Including rustic works
   Picture framing see N8550+
   Wood staining see TT345
Lathework. Turning
   Cf. TJ1215+ Machine tools
   Cf. TS546 Watchmakers' lathes
   Cf. TT207 Metal turning
201 General works
202 Elementary textbooks of woodturning
203 Ornamental, geometric, eccentric, etc.
203.5 Routing. Routers
Metalworking
   Cf. NK6400+ Decorative art
   Cf. TS720+ Precious metals. Jewelry
205.A1 Periodicals
205.A2-Z General works
206 Metal spinning
207 Metal turning
209 Milling
211 Welding
   Cf. TK4661 Electric welding
   Cf. TS227+ Manufacturing processes
212 Jewelry craft
Metalworking -- Continued

213
Other special metal products (not A-Z)
Including home furnishings in metal

213.6
Nail craft

214
Scrapmetal craft

214.3
Wire craft

Ironworking. Forging
Cf. TS225+ Manufacturing processes

215
General works
Blacksmithing
Cf. SF907+ Horseshoeing

218
Periodicals, societies, etc.

220
General works

221
Amateurs' manuals

223
Tables, calculations, etc.

224
Equipment and supplies

240
Bent iron work. Wrought-iron work
Cf. NK8200+ Decorative art

242
Aluminum work. Aluminum foil craft

250
Copperwork
Cf. NK8100+ Decorative art

265
Leadwork
Cf. NK8350+ Decorative art

Tinwork. Tin can craft
Cf. NK8425 Decorative art
Cf. TS600+ Metal manufactures

266
General works

266.3
Pewter craft
Cf. NK8400+ Decorative art

267
Soldering and brazing
Cf. TH6297 Plumbing

Stencil cutting. Stencil work
Cf. NK8650+ Decorative stencil work

270
General works

273
Screen process work. Silk-screen printing
For serigraphy see NE2236+
Cf. TT852+ Textile printing

288
Bone and horn craft
Cf. NK6020+ Decorative art
Cf. TS1050 Manufactures

290
Leatherwork
Cf. NK6200+ Decorative art
Cf. TS1030+ Manufactures
Cf. TT666 Gloves
Cf. TT667 Handbags

293
Rock craft
Including flintknapping

295
Cement work, plaster craft, etc.
Including sand casting, earth casting, etc.
Cf. NB1190 Sculpture

Plastic craft
 Including use of plastic foam

297
General works

297.5
Plastic furniture

297.8
Fiberglass craft
Glass craft
   Including glass engraving, glass painting, glass constructions, glass forming, etc.
   Cf. NB1270.G4 Glass sculpture
   Cf. NE2690 Glass engravings
   Cf. NK5100+ Decorative arts
   Cf. TH8271+ Decoration in buildings
Painting, varnishing, gilding, etc.
   Including industrial painting
   Cf. ND25+ Fine arts
   Cf. NK2140+ Decorative painting
   Cf. TP934+ Paint manufacture
   Cf. TS698 Metal painting
   Cf. TS2030+ Carriage painting
   Cf. TT851 Textile painting

Periodicals, societies, etc.
Collected works (nonserial)
Directories
History
General works
Early to 1800
1800-
Paint shops and equipment
Paint mixing
Spray painting
Electrocoating. Electrophoretic deposition
House painting. Painting of buildings and structures
   Cf. TH8001+ Decoration of buildings
General works
Interior painting
   Including decorative finishes, frescoing, marbling, etc.
   Cf. TT385 Marbling on various materials
Painters' materials (General)
   Cf. TP934+ Paint manufacture
Wood finishing
   Cf. TS886 Furniture manufacture
   Cf. TT199.4 Furniture in woodworking crafts
General works
Graining and marbling
Varnishing
Wood staining
Sign painting and lettering. Show cards
   Cf. NC1800+ Posters
Periodicals, societies, etc.
General works
House numbers
Coloring of bone, stone, etc.
Lacquering, crackle
Gilding, bronzing, etc.
Metal finishing
   Cf. TS653+ Industrial manufactures
General works
Coloring
Painting and lacquering
Enameling
   Including cloisonné and champlevé
   Cf. NK4997+ Decorative arts
Painting, varnishing, gilding, etc.
Metal finishing -- Continued

382.8 Gilding, bronzing, silverying

385 Decorative painting on various materials. Tole painting. Marbling
Cf. NK5312 Folk art in the United States
Cf. NK5313+ Folk art in other countries
Cf. TT323 Marbling (Interior painting)

386 Felt marker decoration

Soft home furnishings
Cf. TT198 Upholstering
Cf. TT849 Tapestry
Cf. TT850 Rugs, carpets, etc.

387 General works

390 Curtain making. Drapes

395 Slipcovers
Bedding
Cf. TX315 Home furnishings

399 General works

403 Bedspreads
For quilts see TT835+

405 Blankets

406 Sheets

408 Pillowcases

410 Pillows and cushions

Clothing manufacture
Including the garment industry
Periodynamals, societies, etc.
Dictionaries and encyclopedias
Directories

490.6.A-Z By region or country, A-Z
Subarrange each country by Table T4a

497 General works

498 Clothing factories
Cf. TH4522 Building construction

499 Tables, calculations, etc.

Dressmaking and women's tailoring. Fashion
Cf. GT500+ History of dress and costume
Cf. NK4700+ Decorative arts
Cf. TR679 Fashion photography
Cf. TR894.8 Fashion cinematography

500.A1 History and criticism of periodicals

500.A2-Z Periodicals and societies. Fashion magazines
Cf. PN4784.F33 Journalism

502 Fashion shows, exhibitions, etc.

503 Dictionaries and encyclopedias
Directories see TT495

503.5 Fashion writing

504 History of dressmaking and tailoring
Special countries

504.4 United States

504.6.A-Z Other countries, A-Z

Biography

505.A1 Collective

505.A2-Z Individual, A-Z

505.P6 Poiret
Clothing manufacture
  Dressmaking and women's tailoring. Fashion
  Biography
    Individual, A-Z -- Continued
  Worth

505.W6

506
  Pictorial works

507
  Art of dress. Theory. Aesthetics. Costume design

507.5
  Fashion as a profession. Vocational guidance

508
  Study and teaching

509
  Fashion drawing
  General works

510
  Early to 1800
  1800-

515
  General works

518
  Textbooks

519
  Addresses, essays, lectures
  Women's tailoring

519.5
  General works

520
  Patternmaking and design
    Including cutting, drafting, measuring and grading

522
  Blank forms

523
  Dress forms

524
  Leather garments

525
  Fur garments

530
  Coats and capes

535
  Jackets

540
  Skirts

542
  Slacks, Trousers
    For men's slacks, or men's and women's slacks see TT605

545
  Blouses

546
  Smocks
    Cf. TT840.S66 Smocking

546.5
  Aprons

547
  Maternity clothes

550
  Alterations. Restyling

552
  Trimming
  Catalogs and pricelists

555
  General works

556
  Catalogs of patterns
    For catalogs issued periodically see TT500+

557
  Special fabrics and materials
    Including buttons, zippers, lining

560
  General special

562
  Clothing for girls

565
  Dress reform
  Tailoring. Men's clothing
    Periodicals, societies, etc.

570
  Tailoring

572
  Furnishing goods, etc.
  Directories see TT495

574
  Dictionaries and encyclopedias
  Tailoring
    General works

575
  Early to 1800

580
  1800-

583
  Repairing, pressing, etc.
Clothing manufacture
Tailoring. Men's clothing
Tailoring -- Continued
585 General special
590 Patternmaking and design
Including cutting, drafting, measuring, and grading
593 Study and teaching
595 Coats
600 Overcoats
603 Sleeves
605 Trousers. Slacks
610 Breeches
612 Shirts
615 Vests
616 Neckties
617 Men's fashions
618 Correct dress
Catalogs and pricelists
620 General works
625 Uniforms
626 Livery
627 Furnishings
628 Sample books
630 Clothing for boys
633 Costumes for special occasions
Children's clothing
Cf. TT562 Clothing for girls
635 General works
637 Baby clothes. Layettes
640 Patterns, etc.
645 Catalogs and pricelists
647 Ecclesiastical vestments
Cf. BV167 Religion (General)
Cf. BX1925 Catholic Church
Cf. BX5180 Church of England
Cf. NK4850 Art industries
648 Clothing for people with disabilities
649 Other special types of clothing
Including work clothes, sport clothes
Dress accessories
649.8 General works
Millinery
Cf. TS2180+ Hats
650 Periodicals, societies, etc.
Biography
653.A1 Collective
653.A2-Z Individual, A-Z
655 General works
657 General special
660 Illustrations and styles
665 Catalogs and pricelists
666 Gloves
Cf. TS2160 Glove industry
667 Handbags. Tote bags
667.5 Kerchiefs. Bandannas
668 Belts
Clothing manufacture -- Continued
   Underwear. Lingerie
     Periodicals, societies, etc.
     General works
     Special
     Undershirts
     Foundation garments
       Including corsets, girdles, brassieres, etc.
     Other special

678.5 Footwear
  Cf. TS989+ Boot and shoemaking

Knit goods, hosiery, sweaters, etc. Machine knitting
  Cf. TS2160 Gloves
  Cf. TT819+ Hand knitting and crocheting

679 Periodicals, societies, etc.
679.5 Dictionaries and encyclopedias

680 General works
681 Hosiery
682 Other special
683 Trade publications
685 Knitting and crocheting machinery
687 Domestic machines
688 Knit goods specifications
689 Warp knitting
690 General special
695 Directories

Home arts. Homecrafts
   Including home arts for women
   Cf. GT480+ Manners and customs

697 Periodicals, societies, etc.
698 General works

Textile arts and crafts
   Cf. TT387+ Soft home furnishings
   Cf. TT490+ Clothing manufacture
   Cf. TT925 Soft sculpture

699 General works

Sewing. Needlework
  Cf. TT845 Needlework tools

700 Periodicals, societies, etc.
705 General works
708 Study and teaching
710 Textbooks
712 Juvenile works
713 Sewing by machine
   Cf. TJ1501+ Sewing machine construction

715 General special

Mending
672 General works
720 Darning

Decorative needlework. Fancy work
  Cf. NK9100+ Decorative work

740 Periodicals, societies, etc.
750 General works
751 General special

Patterns

753 General works
Home arts. Homewares. Homecrafts
Textile arts and crafts
Decorative needlework. Fancy work
Patterns -- Continued

755
Stamping

760
Stitches
Embroidery
Cf. NK9200+ Decorative art
Cf. TS1783 Manufacture

769.A-Z
By region or country, A-Z
Subarrange each country by Table T4a

770
General works
770.5
Juvenile works
771
General patterns
772
Machine embroidery
773
Classes of designs
  e.g. alphabets, birds, flowers
775
Articles embroidered
  e.g. doilies, table covers
777
Materials
  e.g. embroidery silk, gold thread
778.A-Z
Types of embroidery, A-Z
778.A87
Assisi
778.B5
Blackwork embroidery
778.B73
Brazilian dimensional embroidery
778.C24
Candlewicking
778.C3
Canvas embroidery
778.C63
Couching
778.C65
Counted thread embroidery
778.C7
Crewelwork
778.C76
Cross-stitch
778.F33
Fagoting
778.H43
Hedebo embroidery
778.H83
Huckaback
778.M47
Metal thread embroidery
778.S55
Shisha mirror embroidery
778.S64
Silk ribbon embroidery
778.S75
Stump work
778.W55
White work
779
Appliquéd
Drawnwork
785
General works
Special kinds
787
Hardanger
791.A-Z
Other, A-Z
Lacemaking
  Cf. NK9400+ Decorative art
  Cf. TS1782 Machine-made lace
800
General works
805.A-Z
Special laces, A-Z
805.B36
Battenberg lace
805.B63
Bobbin lace
805.H34
Hairpin lace
805.I74
Irish crochet lace
805.K54
Knitted lace
805.N43
Needlepoint lace
Home arts. Homecrafts
Textile arts and crafts
Decorative needlework. Fancy work
Lacemaking -- Continued
810
Lace craft
Knitting and crocheting
For bead crochet see TT861.3
Cf. RM735.7.K54 Therapeutic use
Cf. TT679+ Machine knitting
819.A-Z
By region or country, A-Z
Subarrange each country by Table T4a
820
General works
825
Shawls, sweaters, socks and other articles
829
Toy-knitting. Spool-knitting for children
833
Locker hooking
Class here general works on the technique of hooking. For works on making specific items, see the item, e.g. TT850 Rugs; TT850.2 Wall hangings
Cf. TT850 Rugs
Quilting and patchwork
Including quilts, coverlets, etc. made by this technique
Cf. TT779 Appliqué
835
General works
835.5
Quilting as a profession
836.A-Z
Special patterns and techniques, A-Z
836.M56
Miniature quilts
836.T73
Trapunto
840.A-Z
Other kinds of fancy work, A-Z
840.F33
Fabric folding
840.M33
Macramé
840.N48
Netting
840.R66
Ropework
Including knots
840.S66
Smocking
840.S68
Sprang
840.T38
Tatting
845
Tools and supplies
Including catalogs
847
Hand spinning
Including use of the spinning wheel
Cf. TS1480+ Industrial spinning
Hand weaving
Including hand weaving not requiring looms, e. g. card weaving
Cf. TS1490+ Industrial weaving
848
General works
848.5
Handlooms
849
Tapestry
Cf. NK2975+ Decorative art
Cf. TH8481 Tapestrying (Wall decoration)
Cf. TS1780 Machine-made tapestry
849.2
Hammocks
Cf. GN415.3.H35 Ethnology
Cf. TS1781 Textile manufacture
849.5
Felt work
849.7
Textile finishing
850
Hand-made rugs, carpets, etc.
Including those made by hooking
Home arts. Homecrafts
  Textile arts and crafts -- Continued
850.2  Flags. Banners. Wall hangings
850.5  Ribbon work
  Including paper ribbon work
Textile decoration
  Cf. NK9500+ Decorative arts
  Cf. TP890+ Chemical industries
851  Textile painting
  Cf. TT323 Marbling (Interior painting)
Textile printing. Block printing
852  General works
852.5  Batik
  Cf. NK9503+ Decorative arts
852.6  Stencil printing
852.7  Transfer printing. Iron-on transfer work
  Cf. NK9510 Art industries
Textile dyeing
  Including the dyeing of garments
853  General works
853.5  Tie-dyeing
  Dyes
854  General works
854.3  Natural
854.5  Synthetic
Decorative crafts
  Cf. BM729.H35 Jewish handicraft
  Cf. TT205+ Metal crafts
855  Periodicals, societies, etc.
857  General works
Beadwork
860  General works
  Cf. NK3650+ Decorative art
  Cf. TS2301.B4 Manufactures
  Cf. TT890.2 Bead flowers
861.3  Bead crochet
862  Shellcraft
864  Seed craft
865  Sand craft
  Cf. NB1270.S3 Sand sculpture
  Cf. TT295 Sand casting
866  Wax craft
  Cf. NK9580+ Wax modeling
  Cf. TT894 Wax flowers
Printing
866.5  General works
867  Rubber stamp printing
868  Potato printing
869  Typewriter art
869.5  Computer art. Computer craft
  Cf. N7433.8+ Visual arts
869.7  Tape craft
Home arts. Homecrafts
Decorative crafts -- Continued
Paperwork
   Including the use of cardboard, corrugated paper, etc.
   Cf. TL778 Paper airplanes
   Cf. TT175+ Paper dolls
   Cf. TT850.5 Paper ribbon work
   Cf. TT892 Paper flowers
870
870.5
871
871.5
872
872.3
872.5
Vegetable-fiber work
873
873.2
873.5
874
874.5
875
876
876.3
876.5
877
877.5
877.8
878
878.5
879.A-Z
879.B3
879.J3
880
890
890.2
890.3
890.4
890.5
890.7
891
891.3
892
893
Home arts. Homecrafts
  Decorative crafts
    Fancy articles
      Artificial flowers -- Continued
        Wax flowers
        Artificial fruits
        Books. Altered books
        Candles
          Cf. TP993 Chemical technology of candles
        Chessmen
          Cf. NK4696 Decorative art
        Decorated eggs. Eggshell craft
          Cf. NK4900 Decorative art of Easter eggs
        Decorative balls
        Glass jars
        Jewelry see TT212
        Lampshades
        Lamps
          Cf. TK9921 Electricity for amateurs
        Masks
          For theatrical masks see PN2071.M37
        Merry-go-round art
        Mirrors
          Cf. NK8440+ Decorative arts
        Mobiles
          Cf. NB1272 Sculpture
        Picture frames
        Pincushions
          Cf. NK4660 Pincushion dolls
        Potpourris (Scented floral mixtures)
        Screens
        Tassels
        Vases
        Windchimes
        Door harps
        Tabletop fountains
          Cf. NK8724 Decorative arts
        Plant containers and container gardening equipment see SB418.4
        Wreaths
          Cf. SB449.5.W74 Flower arrangement

Decorations for special events, A-Z
  Carnival
  Chinese New Year
  Christmas
    Cf. GT4988 Manners and customs
  Earth Day
  Easter
  Fourth of July
  Halloween
  Hanukkah
  Holidays
  Kwanzaa
  Mother's Day
  New Year, Chinese see TT900.C38
  Parties
Home arts. Homecrafts

Decorative crafts

Decorations for special events, A-Z -- Continued

900.P74  Presidents' Day
900.S25  Saint Patrick’s Day
900.T5   Thanksgiving
900.V34  Valentine’s Day

Other special techniques

910  Collage, assemblage, constructions, etc. in miscellaneous materials
     For Aids, Scrapbooks, commonplace books see PN245
     Cf. N6494.A8 Assemblage (Art)
     Cf. N6494.C6 Collage (Art)
     Cf. TR685 Composite photography

911  Face painting (Handicrafts)

912  Rubbing craft
     Cf. NB1840+ Sculpture
     Cf. NC915.R8 Graphic arts

916  Modeling in clay, etc.
     Cf. NB1180 Sculpture

Pottery craft
     Cf. NK3700+ Ceramics (Art industries)
     Cf. TP807+ Ceramic technology
     Cf. TT890.4 Ceramic flowers

919  Periodicals, societies, etc.
919.5  Dictionaries and encyclopedias
919.7.A-Z  By region or country, A-Z
     Subarrange each country by Table T4a

920  General works
921  Juvenile works
     Equipment and supplies
921.5  General works
922  Glazes
924  Kilns
924.5  Paper clay
925  Soft sculpture
     Cf. NB1203 Sculpture
926  Balloon sculpture. Balloon decorations
927  Tile craft

Hairdressing, barbering, beauty culture, cosmetology, etc.
     Including beauty shop practice

950  Periodicals. Societies. Collections
951  Dictionaries and encyclopedias

Documents
952  General works
953.A-.W  States, A-W
954.A-Z  Other countries, A-Z
954.5  Directories

Biography

955.A1  Collective
955.A2-Z  Individual, A-Z

General works
956  Before 1800
957  1800-
958  General special
Hairdressing, barbering, beauty culture, cosmetology, etc. -- Continued

958.23  Beauty culture as a profession
        Including vocational guidance

958.3  Nail care. Manicuring
        Class here works on nail care as practiced by professionals and beauty operators
        For nail care as practiced by individuals see RL94

958.5  Skin care
        Class here works on skin care as practiced by beauty operators
        For skin care as practiced by individuals, see RL87

959  Permanent makeup

960  Barbers' manuals

963  Hair styles for men

964  Shaving
        Shop management
        General works
        Equipment and supplies
        General works
        Catalogs see TT979

967  Razors

968  Other special
969  Materials
        Including dyes, oils, soaps, etc.

970  Haircutting (General)
        Cf. TT960 Barber's manuals

971  Study and teaching

972  Hairdressing for women
        General works

973  Hair tinting and bleaching

975  Hairwork
        Braids, wigs, toupees, etc.
        Cf. PN2069 Theatrical wigs

976  Ornaments, jewelry, etc.

977  Recipes for barbers (for hair preparations)

979  Catalogs of equipment and supplies

Laundry work
        Cf. GT482 Laundering customs
        Cf. TP932+ Dry cleaning

980  Periodicals, societies, etc.

983  Directories

985  General and domestic

990  Commercial. Steam-laundry work

991  Blueing and bleaching

993  Starching

995  Ironing

997  Materials. Machinery

998  General special

999  Catalogs, etc.
Home economics

1  Periodicals, societies, etc.
5  Congresses
Exhibitions. Museums
6.A1  General works
6.A2-Z  By region or country, A-Z
        Subarrange each country by Table T4b
Collected works (nonserial)
7  Collections by several authors
8  Collected works of individual authors
9  Minor collections: Papers, essays, etc.
11  Dictionaries and encyclopedias
13  Theory. Philosophy
History and antiquities
        Including manners and customs, gastronomy, etc.
        For modern works on gastronomy see TX631+
        Cf. GT1+ Manners and customs
15  General works
16  Ancient
17  Medieval
18  17th-18th centuries
19  19th-20th centuries
21-127  Special countries (Table T1a)
        Add country number in table to TX0
Biography
139  Collective
140.A-Z  Individual, A-Z
General works
144  Early to 1800
145  1800-
        Textbooks see TX167
147  General special
        Including economics of daily life for men, institutional administration
148  Juvenile works
149  Household science (Chemistry, physics, etc.)
150  Home accidents and their prevention
Pocketbooks, tables, receipts, etc.
        Class here works that emphasize household economics
151  16th-18th century
19th century
153  American
154  English
155  French
156  German
157  Other (not A-Z)
20th century
158  American
159  English
160  French
161  German
162  Other (not A-Z)
21st century
162.2  American
162.3  English
162.4  French
162.5  German
Pocketbooks, tables, receipts, etc.
  21st century -- Continued
  Other (not A-Z)
164
Home economics as a profession
Study and teaching
  165.A1
Periodicals, societies, etc.
  165.A3-Z
General works
  167
Textbooks
  170
Examinations, questions, etc.
  170.7
Laboratory manuals
  171-277
Special countries (Table T1a)
    Add country number in table to TX150
Special schools
  285.A-Z
United States. By school, A-Z
  286.A-Z
Other countries. By school, A-Z
  295
Essays, light literature, fiction, etc.
Household apparatus and utensils
  Cf. TX656+ Kitchen utensils
  298
General works
  299
Catalogs
The house
  Cf. NA7120 Domestic architecture (Popular works)
  Cf. TH4805+ House construction
  Cf. TX653+ Kitchens
  Cf. TX855+ Dining rooms
  301
General works
  303
General special
  Location
  305
General works
  307
Household moving
  309
Arrangement
Furnishing
  Cf. TT387+ Soft home furnishings (Handicraft)
  311
General works
  315
General special
    Including sheets and pillowcases
(317)
Decoration and ornament
  see NK1700+
Administration
  321
General works
  323
Care of the house
    Cf. TH2528 Flooring
    Cf. TH4817+ Home maintenance and repair
  324
Cleaning
    Including silver cleaning
  324.5
Storage in the home
    Including decluttering
  325
Household pests
    Cf. RA639+ Insects and disease
    Cf. SB818+ Economic entomology
    Cf. SB992+ Noxious and useful animals
    Cf. TA423.7 Termite control
Finance, budgets, bookkeeping, accounts
  For early works see TX15+
    Cf. HD6977+ Cost of living
  326.A1
Periodicals. Societies. Serials
The house
Administration
Finance, budgets, bookkeeping, accounts -- Continued
326.A3-Z
General works
Household employees
331
General works
333
General special. Morals, conduct, etc.
Biography
334
Collective
334.1.A-Z
Individual, A-Z

Shopping. Consumer education
Including shopping guides and directories of discount and outlet stores
For economic aspects of discount and outlet stores see HF5429.2+
Cf. TX356 Shopping for food
335
General works
335.5
Juvenile works
By region or country
United States
336
General works
336.5.A-Z
By region or state, A-Z
Subarrange each country by Table T4a
337.A-Z
Other regions or countries, A-Z
Subarrange each country by Table T4a
339
Janitor service
Cf. LB3235 Schoolhouse service
Cf. TX957+ Apartment house service
340
Clothing
Cf. TT490+ Clothing manufacture
Cf. TT700+ Sewing
Cf. TT980+ Laundry work
Nutrition. Foods and food supply
Cf. HD9000+ Provision trade
Cf. TP368+ Food processing industry
Cf. TP500+ Beverage industry
Cf. TS1950+ Butchering, packinghouse industries
Cf. TS1975 Meat inspection
Cf. TS2120+ Cereal and grain milling industry
Periodicals, societies, etc. Food research institutes
Cf. PN4784.F55 Journalism
341
General periodicals
343
Grocery trade periodicals
Periodicals relating to adulteration and inspection see TX501
345
Congresses
Directories of grocers see HD9320+
Exhibitions. Pure food shows, etc.
346.A1
General works
346.A2-Z
Special. By city, A-Z
Dictionaries and encyclopedias
Including dictionaries of cooking
349
General works
350
Bilingual and polyglot
Biography
350.7
Collective
350.8.A-Z
Individual, A-Z
General works. Sources, supply, etc.
351
Early to 1800
Nutrition. Foods and food supply
   General works. Sources, supply, etc. -- Continued

353
   1800-
354
   Textbooks
354.5
   Grocers' catalogs
355
   Popular works. Juvenile works
      Cf. TX149 Household science
      Cf. TX533 Food adulteration, etc.
355.5
   Addresses, essays, lectures
356
   Shopping for food. Economy. Thrift
357
   General special
      Including dietitians, food economy in war time
359
   Nutrition policy
      Prefer classification by country in TX360.A+
      Cf. HD9000.6 Food products industry

Diet, food supply, nutrition policy of special countries

360.A-Z
   By region or country, A-Z
      Under each country:
      .x General works
      .x2A-x2Z By state, province, etc., A-Z
      .x3A-x3Z Special. By city, A-Z
      e.g.
      United States
      360.U6 General works
      360.U63A-U63Z By city, A-Z
360.5 Developing countries
361.A-Z Diet and nutrition of special classes and groups, A-Z
361.A27 African Americans
361.A3 Aged. Older people
361.A4 Agricultural laborers
      Astronauts see TX361.S63
361.A8 Athletes
361.B64 Bodybuilders
361.C5 Children
361.C6 College students
361.C94 Cyclists
361.E43 Elementary school students
361.E93 Executives
361.F37 Farmers
361.F5 Fishers
361.G74 Greek Americans
361.H35 Handicapped. People with disabilities
361.H53 High school students
361.H57 Hispanic Americans
361.H62 Hmong Americans
361.H65 Homeless
      Infants see RJ216
      Low-income groups see TX361.P66
361.M39 Mexican Americans
361.M47 Middle-aged persons
361.M474 Middle school students
361.M48 Migrant laborers
361.M5 Miners
361.M68 Mountaineers
      Older people see TX361.A3
Nutrition. Foods and food supply
  Diet and nutrition of special classes and groups, A-Z -- Continued
    People with disabilities see TX361.H35
  361.P66
    Poor. Low-income groups
  361.P74
    Preschool children
  361.R86
    Runners
  361.S49
    Sexual minorities
  361.S58
    Soccer players
  361.S63
    Space travelers. Astronauts
  361.T44
    Teenage girls
  361.T45
    Tennis players
    Toddlers see RJ216
  361.V47
    Veterans
  361.W55
    Women
  361.W6
    Workers
  361.W7
    Working women
  361.Y6
    Youth
  Study and teaching
    General works
  364
    Special schools, A-Z
  365.A-Z
  Research
    For food research institutes see TX341+
    Markets see HF5469.7+
    Grocery business see HD9320+
  368
    Street food
      Class here general works on street food
  369
    Natural foods
  370
    Junk food. Convenience foods
  Food of animal origin
    Cf. TS1959+ Butchering, packinghouse industries, etc.
    Cf. TS1975 Meat inspection
  371
    General works
    Moral and ethical aspects of eating meat see GT2868.55
  373
    Butchers' meats
  375
    Poultry and game
      Cf. SF481+ Poultry culture
    Dairy foods
      Cf. SF221+ Dairying
  377
    General works
  379
    Milk
  380
    Yogurt
  381
    Butter
  382
    Cheese
  383
    Eggs
      Cf. SF481+ Poultry culture
  385
    Fish
      Cf. SH1+ Fisheries
  387
    Shellfish
      Cf. SH365+ Fisheries
      Cf. SH380+ Lobster fisheries
  388.A-Z
    Other natural products, A-Z
  388.I5
    Insects
  388.T8
    Turtles
  388.W4
    Whales
  389
    Prepared foods, meat extracts, etc.
      Including trade publications
Nutrition. Foods and food supply -- Continued

Vegetable foods

391
  General works
  Vegetarianism
    Cf. BL65.V44 Religious aspects
    Cf. TX837+ Cooking
  392.A1-.A4
    Periodicals, societies, etc.
  392.A5-Z
    General works
    Biography
    Collective
  392.7
    Individual, A-Z
  392.8.A-Z
    Cereals
  392
    General works
  393
    Bread
  394
    Pasta products
  394.5
    Prepared cereals
    Cf. TP435.C4 Food processing industry
  396
    Flowers
  397
    Fruits
  399
    Nuts
    Vegetables
  401
    General works
  401.2.A-Z
    Special, A-Z
  401.2.P47
    Peppers. Hot peppers
  401.2.P67
    Potatoes
  401.2.S69
    Soybeans and soybean products
      Including soy sauce
  402
    Algae as food
      Including marine algae
    Condiments, spices, etc.
  406
    General works
  407.A-Z
    Special, A-Z
  407.M38
    Mayonnaise
  407.O34
    Oils and fats, Edible
  407.P4
    Pepper
  407.S69
    Soy sauce
  407.T87
    Turmeric
  409
    Baking powders, etc.
    Beverages
      Cf. TP620+ Chemical technology
  412
    General works
  415
    Tea, coffee, cocoa, etc.
  Examination and analysis. Composition. Adulteration
    For foods and public health see RA601+
    For food processing see TP372.5+
    For meat inspection see TS1975
  501
    Periodicals, societies, etc.
      Including those relating to adulteration and inspection
      Cf. TX341+ Nutrition
  511
    Congresses
      For pure food congresses see HD9000.9.A+
  515
    History
  517
    Collective
  518.A-Z
    Individual, A-Z
      e.g.
Nutrition. Foods and food supply
Examination and analysis. Composition. Adulteration
Biography
Individual, A-Z -- Continued

518.W5
Wiley, H. W.
531
General works
533
Popular works
535
General special. Pamphlets
537
Food standards, etc.
Analysis (Methods)

541
General works
542
Magnetic resonance imaging
543
Microscopic
544
Thermal
545
Chemical
546
Sensory evaluation
Spectrum analysis

547
General works
547.2.A-Z
Special methods, A-Z
547.2.I53
Infrared spectroscopy
Chromatography
548
General works
548.2.A-Z
Special methods, A-Z
548.2.G36
Gas
548.2.L55
Liquid
548.2.T48
Thin layer
549
Immunossay

Dietary studies, food values, experiments, tests, etc.
Cf. RM214+ Therapeutics
Cf. TX341+ Food supply
Cf. TX361.A+ Foods for special classes

551
General works
552
Canned foods
552.15
Baked products
553.A-Z
Special constituents, A-Z
553.A3
Additives
553.A5
Amino acids
553.A7
Antibiotics
553.A73
Antioxidants
553.A8
Ascorbic acid
553.C23
Calcium
553.C28
Carbohydrates
553.C3
Carotinoids
553.C43
Cholesterol
553.C45
Choline
553.E6
Enzymes
553.F53
Fibers
553.G47
Gluten
553.I75
Iron
553.L5
Lipids
553.M55
Minerals
553.P4
Pectic substances
553.P45
Phosphorus
553.P65
Polysaccharides
553.P7
Proteins
553.S65
Sodium
Nutrition. Foods and food supply
Examination and analysis. Composition. Adulteration
Dietary studies, food values, experiments, tests, etc.
Special constituents, A-Z -- Continued

553.S8  Sugar
553.S85  Sulfur
553.T7   Trace elements
553.U5   Unsaturated fatty acids
553.V5   Vitamins
553.W3   Water

Special foods
Food of animal origin

555
556.A-Z  General works
556.B4   Special, A-Z
556.B8   Beef
556.C35  Buffalo
556.E4   Camel meat
556.G45  Dairy products see TX556.M5
556.H8   Eggs
556.H8   Gelatin
556.K36  Horsemeat
556.K36  Kangaroo meat
556.L3   Lamb
556.M4   Meat
556.M43  Meat, Precooked
556.M5   Milk and milk products
556.P6   Pigeons
556.P8   Pork
556.P9   Poultry
556.V4   Venison
556.5    Fish. Seafood

Vegetables, cereals, fruits, etc.

557
558.A-Z  General works
558.A-Z  Special, A-Z
558.A3   Acorns
558.A6   Apples
558.B3   Bananas
558.B35  Barley
558.B35  Bean curd see TX558.T57
558.B4   Beans
558.B6   Bran
(558.B7)  Bread
(see TX560.B8)
558.B7   see TX560.B8
558.C2   Cabbage
558.C35  Cassava
558.C38  Chia
558.C4   Chickpea
558.C5   Chickpea
558.C5   Citrus fruits
558.C54  Coca flour
558.C57  Corn. Cornmeal. Maize
558.C6   Cowpea
558.D3   Dasheen
558.D35  Dates
558.D35  Flour see TX558.W5
558.F7   Fruit (General)
558.G6   Grapes
Nutrition. Foods and food supply
Examination and analysis. Composition. Adulteration
Dietary studies, food values, experiments, tests, etc.
Special foods
Vegetables, cereals, fruits, etc.
Special, A-Z -- Continued

558.G67
  Groats
558.H2
  Hay
558.L4
  Legumes (General)
558.L5
  Lemon
558.L6
  Logan blackberry
  Maize. Corn, cornmeal see TX558.C57
558.M5
  Millet
558.M9
  Mushrooms and other fungi
558.N6
  Nori
558.N8
  Nuts
558.O3
  Oats
558.O5
  Olives
558.O7
  Oranges
558.P3
  Peaches
558.P35
  Peas
558.P8
  Potatoes
558.Q56
  Quinoa
558.R4
  Rhubarb
558.R5
  Rice
558.R9
  Rye
558.S6
  Sorghum
558.S7
  Soybean
558.S75
  Sprouts
558.S8
  Starches
558.S94
  Sweet potatoes
558.T39
  Tempeh
558.T57
  Tofu
558.T6
  Tomatoes
558.T7
  Triticale
558.V4
  Vegetable juices
558.W5
  Wheat. Flour

Miscellaneous products
559
  General works
560.A-Z
  Special, A-Z
560.A3
  Alcohol
560.B8
  Bread
560.C2
  Cacao
  Cocoa-butter see TP684.C2
560.C63
  Coffee
560.C65
  Confectionery
560.C7
  Cottonseed products
560.D68
  Dough
560.F3
  Fats (Animal and vegetable)
560.F47
  Fermented food
560.H7
  Honey
560.M2
  Macaroni
560.M3
  Maple sugar. Maple syrup
560.M35
  Mate (Tea)
560.N7
  Nut oils
560.O3
  Oils (General)
Nutrition. Foods and food supply

Examination and analysis. Composition. Adulteration
Dietary studies, food values, experiments, tests, etc.
Special foods
Miscellaneous products
Special, A-Z -- Continued

560.O4 Olive oil
560.P6 Pollen
560.S4 Seed oils
560.S9 Sugar
560.Y4 Yeast

Adulterants and adulteration, impurities, etc.
Cf. QP501+ Physiological effects of chemicals
Cf. RA601+ Public hygiene - Foods

General works see TX531

563 Detection of adulterants
567 Microscopic analysis
569 Chemical analysis
Special adulterants and impurities
By classes, A-Z
Cf. TX599+ Preservatives

571.A58 Antibiotic residues
571.C7 Coloring matter
571.G3 Gases, Asphyxiating and poisonous
571.M48 Metals
571.P4 Pesticide residues
571.P63 Plastics. Urethanes
571.R3 Radioactivity
571.S65 Solvents
571.S9 Sweeteners, Artificial
Urethanes see TX571.P63
571.V48 Veterinary drug residues
571.X45 Xenobiotics

572.A-Z By chemical composition, A-Z

572.A6 Aluminum
572.A77 Arsenic
572.C24 Cadmium
572.C3 Calcium sulfate
572.H4 Heavy metals
572.L4 Lead
572.M4 Mercury
572.N5 Nitrates, nitrites
572.P65 Polychlorinated biphenyls
572.S79 Styrene
572.S9 Sulfurous acid
572.T6 Tin

Special foods
Including methods of analysis

583 Coffee
585 Tea
Milk see SF254.A1+
Spices

587 General works
588.A-Z Special, A-Z
589 Flavoring extracts
595.A-Z Other foods, A-Z
Nutrition. Foods and food supply
Examination and analysis. Composition. Adulteration
Adulterants and adulteration, impurities, etc.
Special foods
Other foods, A-Z -- Continued

595.F47  Fish
595.F5  Flour
595.R37  Rape oil
595.T6  Tomatoes

Beverages
596  General works
597  Alcoholic beverages
   Cf. TP612 Compounding

Preservation and storage of foods in the home. Food handling in the home
Cf. HD9320+ Grocery trade
Cf. RA601+ Public hygiene
Cf. SB129+ Farm produce
Cf. SF250.5+ Dairy products
Cf. SH334.9+ Fishery products
Cf. TP371.2+ Food processing industry
Cf. TS1968 Poultry processing

599  Periodicals. Societies. Serials
600  Directories
601  General works
602  Study and teaching. Research
603  Canning
Cold storage see TP372.2
Chemical treatment. Preservatives see TP371.4+

609  Drying, smoking, etc.
   Cf. TX835 Smoked foods cooking

610  Freezing
Sterilization see TP371.35
Radiation sterilization see TP371.8

612.A-Z  Special foods and condiments, A-Z
612.A6  Apples
612.B4  Berries
612.C5  Cherries
612.C57  Citrus fruits
612.E4  Eggs
612.F5  Fish (General)
612.F7  Fruit (General)
Game dressing and skinning see SK36.2
612.J3  Jam (General)
612.J4  Jelly (General)
612.M37  Marmalade
612.M4  Meat
612.M8  Mushrooms
612.T7  Tomatoes
612.V4  Vegetables (General)
   Cf. SB324.85 Storage for market
Gastronomy, pleasures of the table, dining, etc.
   Including food tourism

631  General works
633  American
635  English
637  French
Nutrition. Foods and food supply
  Gastronomy, pleasures of the table, dining, etc.--Continued
  639
  German
  641
  Other (not A-Z)
Cooking
  Periodicals see TX1
  Exhibitions. Museums see TX6.A1+
  642
  Collectors and collecting. Collectibles
  Dictionaries and encyclopedias see TX349+
  Communication of cooking information
  643
  General works
  644
  Language. Authorship
  645
  History
  648
  Awards, prizes, etc. Competitions
  Biography
    Including works on cooks, food writers, etc.
    649.A1
    Collective
    649.A2-Z
    Individual, A-Z
  650
  Directories
    For directories of restaurants, etc. see TX907+
General works
  651
  Treatises
    Class here works emphasizing technique of cooking, with or without recipes
    Cf. TX714 General recipe collections
  652
  General special
  652.4
  Vocational guidance
    Cf. TX911.3.V62 Vocational guidance for the hospitality industry
  652.5
  Juvenile works
  652.7
  Minor works, tables, etc.
  652.9
  Essays, lectures, etc.
  652.95
  Molecular gastronomy
Kitchen
  Class here works on kitchens, including history, construction, and kitchenware in general
  For works on interior design, decoration, and plans for kitchens see NK2117.K5
  653
  General works
  655
  Arrangement
Equipment, appliances, utensils, etc.
  Cf. NK6140 Kitchen collectibles
  656
  General works
  657.A-Z
  Special, A-Z
  657.A66
  Apple parers. Peelers
  657.B34
  Baking pans
  657.C37
  Cast-iron cookware
  Chafing dishes see TX825
  657.C67
  Coffee making paraphernalia
  657.C7
  Cookers
  657.C72
  Cookie molds. Cookie cutters
  Cookware
  657.C74
  General works
    Baking pans see TX657.B34
    Cast-iron cookware see TX657.C37
    Kettles see TX657.K4
  657.C76
  Corkscrews
  657.D6
  Dishwashing machines
  657.E35
  Eggbeaters
  Fireless cookers see TX831
Cooking
   Equipment, appliances, utensils, etc.
       Special, A-Z -- Continued
   657.F7
       Fryers
   657.I24
       Ice cream scoops
   657.K4
       Kettles
   657.K54
       Knives
   657.M85
       Muffin pans
   657.N87
       Nutcrackers
       Ovens
   657.O57
       Brick. Clay
   657.O6
       Gas
   657.O64
       Microwave
       Peblers, Apple see TX657.A66
   657.P47
       Pestles
   657.P6
       Potato peeling machines
   657.S28
       Spoons
       Stoves and ranges
          Cf. TS425 Stove manufacture
   657.S3
       General
   657.S4
       Coal
   657.S5
       Electric
   657.S6
       Gas
   657.S7
       Gasoline
   657.S8
       Oil
   657.S9
       Wood
   657.T43
       Tea making paraphernalia
       Toasters
   657.T58
       Electric
   657.T6
       Gas
   658
       Catalogs of miscellaneous articles
Study and teaching
   661
       General works
   663
       Textbooks, etc.
       Special schools
   667
       American
   669.A-Z
       Other countries, A-Z
Cooking processes
   681
       General works
   683
       Baking
   685
       Boiling
   686
       Braising
   687
       Broiling
       Frying
   689
       General works
   689.4
       Sautéing
   689.5
       Stir frying
   690
       Roasting
   690.7
       Sous-vide
   691
       Steaming
   693
       Stewing. Cooking en casserole
Cookbooks
   Early to 1800
   703
       American. Canadian
   705
       English
   707
       French
Cooking
Cookbooks
Early to 1800 -- Continued

709
German
711
Italian
713
Other (not A-Z)
1800-

714
General recipe collections
Class here works consisting of collected recipes not primarily of a regional, ethnic, or international nature, nor using a specific ingredient or method of cooking, in which the technique of cooking is not emphasized
For treatises see TX651
For ethnic or regional cooking see TX714+
For international cooking see TX725.A1

American
For French, German, etc., cookbooks published in America, see TX719, TX721, etc.
For Indian cooking see E98.F7

715
General works
715.2.A-Z
By style of cooking, A-Z
715.2.A47
African American cooking
715.2.C34
California style
715.2.L68
Hawaiian style see TX724.5.H3
715.2.M53
Midwestern style
715.2.N48
New England style
715.2.P32
Pacific Northwest style
715.2.S68
Pennsylvania Dutch style see TX721
715.2.S69
Southern style
715.2.S69
Southwestern style
715.2.W47
Western style

715.6
Canadian
715.8
Greenlandic

716.A1
Latin American
716.A3-Z
By region or country, A-Z

717
English
717.2
Celtic
717.3
Scottish
717.5
Irish
717.7
Welsh

719
French
719.2.A-Z
By style of cooking, A-Z
719.2.A45
Alsation
719.2.A98
Auvergne
719.2.B74
Brittany
719.2.B87
Burgundy
719.2.C67
Corsican
719.2.F73
Franche-Comté
719.2.G37
Gascony
719.2.N67
Normandy
719.2.P75
Provençal

721
German. Austrian
Including Pennsylvania-Dutch cookbooks

722.A1
Scandinavian
General works
Cooking
Cookbooks
1800-
Scandinavian -- Continued
722.A3-Z
By region or country, A-Z
Italian
723
General works
723.2.A-Z
By style of cooking, A-Z
723.2.N65
Northern
723.2.S55
Sicilian
723.2.S65
Southern
723.2.T86
Tuscan
Russian
723.3
European
723.4
Asiatic
Including Caucasian
Other European
723.5.A1
General works
723.5.A3-Z
By region or country, A-Z
Jewish. Israeli
Cf. TX739.2.H35 Hanukkah
Cf. TX739.2.P37 Passover
724
General works
724.2.A-Z
By style of cooking, A-Z
724.2.A75
Ashkenazic
724.2.E84
Ethiopian
724.2.H86
Hungarian
724.2.I73
Iraqi
724.2.M67
Moroccan
724.2.S36
Samaritan
724.2.S47
Sephardic
724.2.S95
Syrian
724.2.T75
Tripolitanian
724.2.T87
Turkish
724.2.U93
Uzbek
724.2.Y46
Yemenite
Oriental. Asian
Including East Asian, South Asian, Southeast Asian, Polynesian, and Asian American
For Asiatic Russian see TX723.4
For Middle Eastern see TX725.M628
724.5.A1
General works
724.5.A3-Z
By region or country, etc., A-Z
e. g.
724.5.C5
Chinese
724.5.H3
Hawaiian
724.5.I4
India
724.5.I5
Indonesia
724.5.J3
Japan
724.5.K65
Korea
724.5.T5
Thailand
724.5.V5
Vietnam
Other
725.A1
International
725.A3-Z
By region or country, A-Z
Including Africa, Australia, Middle East, etc.
725.M628
Middle East
Cooking
Cookbooks
1800-
Other
By region or country, A-Z -- Continued

(725.N36)
Near East
see TX725.M628

Cooking using alcoholic or fermented beverages
Cf. TP500+ Fermented beverages. Alcohol

726 Wine. Liquors
726.2 Cider
726.3 Beer
726.4 Makkŏlli

Menus, bills of fare, kitchen almanacs, etc.
Cf. TX911.3.M45 Hotels, clubs, restaurants, etc.

727 Early to 1800
728 1800-
731 Entertaining, dinner-giving, etc.
For entertaining in which food is not primary see GV1+

Special meals
For individual foods or ingredients see TX743+
For special methods of cooking see TX820.2+

733 Breakfasts. Brunches
735 Luncheons
Including lunchbox cooking
736 Afternoon teas
Cf. GT2905+ Tea customs
Cf. TX817.T3 Beverages

737 Dinners
738 Suppers
738.5 Buffets
Special occasions. Holidays
739 General works
739.2.A-Z By occasion or holiday, A-Z
739.2.A48 Advent
739.2.C45 Christmas
739.2.E37 Easter
Fast day see TX837+
739.2.H34 Halloween
739.2.H35 Hanukkah
Lent see TX837+
739.2.P37 Passover
Picnics see TX823
739.2.R67 Rosh ha-Shanah
739.2.T45 Thanksgiving
739.2.V34 Valentine's Day

740 Miscellaneous recipes. Canapes, hors d'oeuvres, salads, etc.
For vegetable salads see TX807

740.5 Food presentation. Garnishes
741 Natural foods
742 Raw foods
Food of animal origin
743 General works
745 Eggs
746 Insects
746.2 Earthworms
Cooking
Food of animal origin -- Continued
Fish. Seafood
Cf. TX753+ Shellfish

747
General works
748.A-Z Special, A-Z
748.A53 Anchovies
748.B37 Bass
748.B55 Bluefish
748.B67 Bowfin
748.B85 Burbot
748.C35 Carp
748.C36 Catfish
748.C38 Caviar
748.C63 Codfish
748.C73 Crappie
748.D64 Dogfish
748.E32 Eels
748.F83 Fugu
(748.G7) Grayfish
    see TX748.D64
748.G74 Groupers
748.H33 Haddock
748.H35 Halibut
748.H45 Herring
748.M32 Mackerel
748.M84 Mullet
748.P54 Pike
748.P64 Pollock
748.S24 Salmon
748.S26 Sardines
748.S43 Shad
748.S5 Sharks
748.S58 Skates (Fishes)
748.S68 Squid
748.S75 Striped bass
748.T54 Tilefish
748.T74 Trout
748.T84 Tuna
748.W48 Whale meat

Meat
749
General works
749.5.A-Z Special, A-Z
749.5.A44 Alligator
    Bacon see TX749.5.P67
749.5.B43 Beef
749.5.B57 Bison
    Game see TX751
749.5.G63 Goat meat
749.5.H35 Ham
749.5.H67 Horsemeat
749.5.L35 Lamb and mutton
749.5.P67 Pork
    Including bacon
    Poultry see TX750+
749.5.R32 Rabbit
Cooking
Food of animal origin
Meat
    Special, A-Z -- Continued
749.5.S28
    Sausages
749.5.V37
    Variety meats
Poultry
750
    General works
750.5.A-Z
    Special, A-Z
750.5.C45
    Chicken
750.5.D82
    Duck
750.5.E45
    Emu
750.5.O77
    Ostrich
750.5.P45
    Pheasant
750.5.Q34
    Quail
750.5.T87
    Turkey
751
Game
753
    General works
754.A-Z
    Special, A-Z
754.C53
    Clams
754.C83
    Crabs
754.C84
    Crayfish
754.L63
    Lobsters
754.M98
    Mussels
754.O98
    Oysters
754.S33
    Scallops
754.S58
    Shrimp
754.S63
    Snails
757
Soups
Dairy products
759
    General works
759.5.A-Z
    Special, A-Z
759.5.B87
    Butter
759.5.C48
    Cheese
    Evaporated milk see TX759.5.M54
    Milk
759.5.M54
    Sour cream and milk
759.5.S68
    Yogurt
Baking. Confectionery
    Cf. GT5960.B34+ Manners and customs
761
    Periodicals, societies, etc.
763
    General works
765
    Minor works, recipe books, etc.
767.A-Z
    Recipes for special food products, A-Z
767.A65
    Apple butter
767.C37
    Caramel
767.C5
    Chocolate
767.H7
    Honey
767.M3
    Maple sugar and syrup
767.W48
    White chocolate
Bread
769
    General works
770.A-Z
    Special breads, A-Z
770.B35
    Bagels
770.B55
    Biscuits. Scones
Cooking
Baking, Confectionery
Bread
   Special breads, A-Z -- Continued
770.C45  Challah
770.C64  Corn bread
770.C72  Crackers
   Crepes see TX770.P34
770.C74  Croissants
770.D67  Doughnuts
770.F55  Filo dough
770.F57  Flatbreads
      For individual types of flatbreads, see the type, e.g., Focaccia, TX770.F63
770.F63  Focaccia
770.F73  French toast
770.L34  Lahoh, حَوْلَةُ، حَوْلٌ حَوْلَةُ
770.L38  Lavash
770.L44  Lefse
770.M83  Muffins
770.P34  Pancakes, Waffles, Crepes
770.P56  Pita bread
770.P58  Pizza
770.P73  Pretzels
   Scones see TX770.B55
770.S66  Sourdough bread
770.T65  Tortillas
   Waffles see TX770.P34
770.W56  Whole wheat bread
Cakes
   Including cupcakes
771  General works
771.2  Cake decorating
771.4  Cake pops
   Cheesecake see TX773
772  Cookies
773  Desserts, pies, and puddings. Pastry
      Including cheesecake
775  Directories of bakers, etc.
776  Bakers' trade publications
778  Bakers' and confectioners' supplies
      Including catalogs
      Cf. TX657.B34 Baking pans
Confectionery
   Periodicals see TX761
783  General works
Candy
784  History of candy manufacture
791  General works
792  Juvenile works
793  Candymakers' tools, etc.
   Desserts see TX773
Ice creams and ices
795.A1  Periodicals, societies, etc.
795.A2-Z  General works
796.A-Z  Special forms, flavors, etc. A-Z
796.I45  Ice cream sandwiches
Cooking
    Baking, Confectionery
    Confectionery
        Ice creams and ices
            Special forms, flavors, etc. A-Z -- Continued
        Ice pops
    796.I46
    799
        General special
Vegetables (Preparation)
    Cf. TX392+ Vegetarianism
    801
        General works
    803.A-Z
        Special vegetables, A-Z
    803.A7
        Artichokes
    803.A8
        Asparagus
        Bean curd see TX814.5.T63
    803.B4
        Beans
    803.B66
        Broccoli
    803.B7
        Brussels sprouts
    803.C3
        Cabbage
    803.C35
        Carrots
    803.C37
        Cassava
    803.C38
        Cauliflower
    803.C45
        Celery
    803.C68
        Cowpeas
    803.C83
        Cucumbers
    803.D34
        Dandelions
    803.E4
        Eggplant
    803.F85
        Fungi
    803.G74
        Greens
    803.L4
        Leeks
    803.L46
        Lentils
    803.O37
        Okra
    803.O5
        Onions
    803.P35
        Peanuts
            Cf. TX814.5.P38 Peanut butter
    803.P4
        Peas
    803.P46
        Peppers
    803.R8
        Potatoes
    803.R93
        Pumpkin
    803.R33
        Radishes
    803.R58
        Rhubarb
    803.R77
        Root crops. Tuber crops
    803.S6
        Soybeans
    803.S63
        Spaghetti squash
    803.S67
        Squash
    803.S94
        Sweet potatoes
    803.T37
        Taro
    803.T6
        Tomatoes
            Cf. TX814.5.T65 Tomato paste
        Tuber crops see TX803.R77
    803.T87
        Turnips
    803.Y38
        Yautia
    803.Z282
        Zucchinis
    804
        Mushrooms
            Including specific types of mushrooms
    804.5
        Truffles
Cooking

Vegetables (Preparation) -- Continued

805
Pickles
806
Kimchi
807
Salads

Cereals (Preparation)

808.A1
Periodicals, societies, etc.
808.A2-Z
General works
809.A-Z
Special, A-Z

Cf. TX395 Prepared cereals
Cf. TX803.A+ Special vegetables

809.B75
Brown rice
809.B8
Buckwheat
809.B85
Bulgur
Corn see TX809.M2
809.C68
Couscous
Fried rice see TX809.R5
809.F66
Fonio
809.G55
Gluten
809.G7
Granola
809.M17
Macaroni. Pasta
809.M2
Maize. Corn
For popcorn see TX814.5.P66
809.N65
Noodles
809.O22
Oat bran
809.O23
Oats
Pasta see TX809.M17
Maize. Corn see TX814.5.P66
809.P67
Porridge
809.Q55
Quinoa
809.R5
Rice
Including fried rice
809.R515
Rice cakes
809.R52
Rice flour
809.S64
Spelt
809.W45
Wheat
809.W453
Wheat germ
809.W55
Wild rice

Fruits (Preparation)

811
General works
813.A-Z
Special fruits, A-Z
813.A6
Apples
813.A64
Apricots
813.A9
Avocados
813.B3
Bananas
813.B4
Berries
813.B5
Blueberries
813.B73
Breadfruit
813.C4
Cherries
813.C5
Citrus fruits
813.C7
Cranberries
813.C87
Currant grapes
813.D3
Dates
813.F5
Figs
813.G73
Grapefruit
813.G74
Grapes
Cooking
Fruits (Preparation)
Special fruits, A-Z -- Continued

813.G83  Guava
813.H83  Huckleberries
813.J33  Jackfruit
813.K55  Kiwifruit
813.L4   Lemons
813.L55  Limes
813.M35  Mangos
813.M44  Melons
813.O4   Olives
813.O6   Oranges
813.P3   Papaya
813.P34  Passion fruit
813.P38  Peach palm
813.P4   Peaches
813.P43  Pears
813.P45  Persimmons
813.P5   Pineapples
813.P55  Plums
813.P64  Pomegranates
813.P78  Prunes
813.R34  Raisins
813.R37  Raspberries
813.S85  Stone fruit
813.S9   Strawberries

Nuts (Preparation)

814  General works
814.2.A-Z  Special nuts, A-Z
814.2.A25  Acorns
814.2.A44  Almonds
814.2.C37  Cashews
814.2.C48  Chestnuts
814.2.C63  Coconuts
814.2.H39  Hazelnuts
814.2.M33  Macadamia
814.2.P4   Pecans
814.2.P46  Pine nuts
814.2.W3   Walnuts
814.5.A-Z  Other, A-Z
814.5.A75  Aphrodisiacs
Bean curd see TX814.5.T63
814.5.C35  Carob
814.5.C63  Coconut flour
814.5.F5   Flowers
814.5.G4   Gelatin
814.5.H45  Hemp
814.5.H66  Hops
814.5.J35  Jam
814.5.K83  Kudzu
814.5.L68  Lotus
814.5.M63  Mochi
814.5.P38  Peanut butter
814.5.P66  Popcorn
814.5.P76  Poppies
814.5.R53  Rice cakes
814.5.R58  Roselles
814.5.R6   Roses
814.5.S34  Sago
814.5.S44  Seeds
814.5.S47  Sesame. Tahini
           Tahini see TX814.5.S47
814.5.T45  Tempeh
814.5.T48  Textured soy protein
814.5.T63  Tofu
814.5.T64  Tomato juice
           Cf. TX819.T65 Tomato sauces
814.5.T65  Tomato paste
           Cf. TX819.T65 Tomato sauces

815
817.A-Z  Special beverages, A-Z
817.A1   General works
817.A3-Z Special, A-Z
           Cf. TX740 Canapes, hor d'oeuvres, etc.
           Cf. TX805 Pickles
           Cf. TX840.B3 Barbecuing
817.B37  Basil
817.C36  Canola oil
817.C53  Cinnamon
817.C58  Coconut oil
817.C6   Coffee (as a flavor)
817.C65  Coriander
817.C9   Curry
817.F78  Fructose
817.G3   Garlic
817.G53  Ginger

817.C4   Chocolate
           Including cocoa
817.C6   Coffee
           Fermented beverages see TP500+
           Flower teas see TX817.T3
817.F78  Fruit drinks
           Herbal teas see TX817.T3
817.L45  Lemonade
817.M5   Milkshakes. Malted milk
817.P86  Punches
817.S636 Smoothies
817.S64  Soft drinks
817.T3   Tea
           Including herbal teas, flower teas, etc.

818
819.A1   General works
819.A3-Z Special, A-Z
           Cf. TX740 Canapes, hor d'oeuvres, etc.
           Cf. TX805 Pickles
           Cf. TX840.B3 Barbecuing
819.B37  Basil
819.C36  Canola oil
819.C53  Cinnamon
819.C58  Coconut oil
819.C6   Coffee (as a flavor)
819.C65  Coriander
819.C9   Curry
819.F78  Fructose
819.G3   Garlic
819.G53  Ginger
Cooking
Condiments, sauces, etc.
Special, A-Z -- Continued

819.G55
Glutamate

819.H4
Herbs
Cf. GT5164 Manners and customs

819.H66
Hot peppers

819.K48
Ketchup
Cf. TX819.T65 Tomato sauces

819.L38
Lavender

819.M25
Marijuana

819.M26
Marinades

819.M3
Mayonnaise

819.M56
Mint

819.M57
Miso

819.M65
Molasses

819.M87
Mustard

819.O4
Olive butter

819.O42
Olive oil

819.P3
Pepper

819.P45
Pestos

819.S24
Saffron

819.S27
Salad dressing

819.S29
Salsas

819.S32
Salt

819.S58
Soy sauce

819.S75
Stevia

819.S8
Stocks

819.S94
Sugar

819.S96
Syrups
Tahini see TX814.5.S47

819.T43
Tea (as a flavor)

819.T65
Tomato sauces
Class here works on tomato sauces in general
For specific types of tomato sauce, see the sauce, e.g., Ketchup, see TX819.K48

819.V35
Vanilla

819.V5
Vinegar

819.W5
White sauce

819.W65
Worcestershire sauce

820
Cooking for large numbers. Institutional cooking
For communal kitchens see TX946

Other special varieties of cooking
For individual foods or ingredients see TX743+
Army see UC720+

821
Canned foods, etc.

823
Camp and picnic. Outdoor cooking
Casserole cooking see TX693

825
Chafing dish cooking

825.5
Clay pot cooking

826
Cold-storage foods
Cooking for sick soldiers see UH487+
Cooking for the sick see RM219+
Diabetic cooking see RC662

826.5
Dried foods
Cooking

Other special varieties of cooking -- Continued

827
Electric cooking. Slow cooking
  Cf. TX657.S5 Electric stoves
  Cf. TX832 Microwave cooking
Fast day see TX837+

827.5
Fermented food

828
Frozen food

829
Hot weather

830
Cold dishes

831
Fireless cookers. Hayboxes, etc.

832
Microwave cooking
Navy see VC350+

833
Paper-bag cooking

833.5
Quick and easy cooking

834
Skewer cooking. Kabobs

835
Smoked foods
  Cf. TX609 Smoking of foods

835.5
Solar cooking

836
Stuffed foods
  Including dumplings
Vegetarian. Vegan. Lenten. Fast day
  Cf. TX391+ Vegetables

837
General works

838
Meat substitutes

840.A-Z
Other special, A-Z

840.B3
Barbecue cooking

840.B5
Blender recipes

840.C65
Convection oven cooking

840.D88
Dutch oven cooking

840.F5
Fireplace cooking

840.F6
Food processor recipes

840.F76
Food truck cooking

840.J84
Juicer recipes
Lunchbox cooking see TX735

840.M35
Mandoline recipes
Marine cooking see TX840.M7

840.M5
Mixer recipes
  For smoothies see TX817.S636

840.M6
Mobile home cooking

840.M7
Motorboat cooking. Marine cooking

840.O53
One-dish meals

840.P7
Pressure cooker recipes

840.S55
Skillet cooking
Slow cooking see TX827

840.S63
Smart cooker recipes

840.T63
Toaster oven cooking
Trailer cooking see TX840.M6

840.W65
Wok cooking
  Cf. TX724.5.C5 Chinese cooking

Dining-room service

851
General works
Dining room

855
General works

857
Arrangement

859
Decoration
Dining-room service -- Continued

Table
871  General works
873  Arrangement
877  Furnishings
879  Decoration
881  Serving
885  Carving

Hospitality industry. Hotels, clubs, restaurants, etc. Food service
Cf. GT3770+ Manners and customs
Cf. GV198.945+ Farm vacations, dude ranches, etc.
Cf. GV854.35+ Ski resorts
Cf. NA7800+ Architecture
Cf. RA794 Health resorts
Cf. SH405 Fishing resorts

901  Periodicals, societies, etc.
905  Dictionaries, societies, etc.

Directories
Including restaurant and hotel guidebooks, etc.
For directories of chefs see TX650

907  General works
By region or country
United States
907.2  General works
907.3.A-Z  By region or state, A-Z
Subarrange each state by Table T4a
907.5.A-Z  Other regions or countries, A-Z
Subarrange each country by Table T4a

History
General works
Special countries
United States
909.A1  Periodicals, societies, etc.
909.A2-Z  General works
909.2.A-Z  By region or state, A-Z
Subarrange each state by Table T4a
Other countries
910.A1  Europe
910.A2-Z  By region or country, A-Z
Special hotels see TX941.A+
Special restaurants see TX945.5.A+
Special taverns, barrooms, etc. see TX950+

Biography
910.3  Collective
910.5.A-Z  Individual, A-Z
911  General works
911.2  General special
911.3.A-Z  Special topics, A-Z
Accounting see HF5686.H75
Appraisal see TX911.3.V34
Bookkeeping see HF5686.H75
911.3.C3  Cashiering
911.3.C6  Commercial correspondence
Concierge services see TX911.3.C63
911.3.C63  Concierges and concierge service
911.3.C65  Cost control
Hospitality industry. Hotels, clubs, restaurants, etc. Food service
   Special topics, A-Z -- Continued

911.3.C8  Customer relations
911.3.E4  Electronic data processing
911.3.E45 Energy consumption
   Equipment and supplies see TX912
911.3.E84 Ethics
911.3.F5  Finance
   Fires and fire prevention in hotels see TH9445.H75
   Fires and fire prevention in restaurants see TH9445.R44
   Food and wine pairings see TX911.3.M45
   Food service see TX943+
911.3.F75  Front desk
   Housekeeping see TX928
911.3.I5  Inventory control
911.3.J65 Job descriptions
911.3.L27 Labor productivity
911.3.L3  Labor turnover
911.3.L62 Location
   Maintenance and repair see TX928
911.3.M27 Management
911.3.M3  Marketing
911.3.M33 Mathematics
911.3.M45 Menus. Wine lists
   Including food and wine pairing
911.3.P4  Personnel management
911.3.P46 Planning
911.3.P7  Prices
911.3.P77 Public relations
911.3.P8  Purchasing
911.3.Q34 Quality control
911.3.R3  Rates
911.3.R47 Reservations
911.3.R48 Restrooms
911.3.R57 Risk management
   Room service see TX943+
911.3.S24 Safety measures
911.3.S3  Sanitation
911.3.S4  Security
   Site selection see TX911.3.L62
911.3.S73 Statistical methods
911.3.S8  Stockroom keeping
911.3.T32 Table setting and decoration
911.3.T73 Training
911.3.V34 Valuation and appraisal
911.3.V62 Vocational guidance
   Cf. TX652.4 Vocational guidance for cooking in general
   Wine lists see TX911.3.M45

911.5  Study and teaching
912  Furnishings, equipment, etc.
(913-917) Law and legislation. Inspectors' reports
   see class K
921  Stewards' manuals. Caterers' manuals. Kitchen control
925  Dining room service. Table service. Wine service
   Including manuals for waiters, waitresses, bussing attendants, etc.
926  Bellmen, doormen, elevator operators
Hospitality industry. Hotels, clubs, restaurants, etc. Food service -- Continued

927  
Butlers

928  
Housekeeping, maintenance, repair

930  
Social executives, hostesses, etc.

(931)  
General special
  see TX911.2

941.A-Z  
Special hotels and hotel chains. By name, A-Z
  Food service
    Including room service
    For food service in the transportation industry see TA1227
    For special topics see TX911.3.A+

943  
General works
  Restaurants, cafeterias, tearooms, etc.
    For directories and guidebooks see TX907+
    Cf. HE7581.5 Cybercafes
    Cf. TP635 Soda fountains

945  
General works

945.2  
School lunchrooms, cafeterias, etc.

945.3  
Fast food restaurants

945.4  
Ethnic restaurants
    Including individual types, e.g. Chinese restaurants

945.5.A-Z  
Special restaurants. By name, A-Z

946  
Mass feeding, communal kitchens, canteens, etc.
  Industrial feeding. Factory canteens

946.5.A1  
Periodicals. Collections. Congresses

946.5.A3-Z  
General works
  Taverns, barrooms, saloons

950  
Periodicals, societies, etc.
  Biography of bartenders, saloonkeepers, etc.

950.5.A1  
Collective

950.5.A2-Z  
Individual, A-Z

950.53  
Directories
  History

950.54  
General works
  By region or country
    United States

950.56  
General works

950.57.A-Z  
By region or state, A-Z

950.59.A-Z  
Other regions or countries, A-Z

950.7  
General works

951  
Bartenders' manuals and recipes
    Cf. TX815+ Non-alcoholic beverages
    Furnishings, equipment, etc. Housekeeping

952  
General works

953  
Bars and bar supplies

Building operation and housekeeping

955  
General works
  Apartment houses

957  
General works

958  
Janitor service
    Cf. TX339 Household janitor service

959  
Other services
    Including elevator service

960  
Housing developments

980  
Office buildings

985  
Public buildings
Mobile home living
  Cf. GV198.5+ Mobile home living
1100  Periodicals, societies, etc.
1105  General works
1106  Juvenile works
      By region or country
          United States
1107  General works
1107.2.A-Z  By region or state, A-Z
1107.4.A-Z  Other regions or countries, A-Z
1110  Recreational vehicle living
History
15 General works
16 Ancient
17 Medieval
18 Modern
19 19th century
20 20th century

Special countries
Numbers that have been provided for "Cities or other special, A-Z," “Local or special, A-Z," or
“Provinces or other special, A-Z" may be used for local subdivision, or for special entities such as
canals, rivers, harbors, railroads, bridges, etc., as appropriate

America
21 General works
North America
22 General works
United States
23 General works
23.1 Eastern states. Atlantic coast
23.15 New England
23.2 Appalachian region
23.3 Great Lakes region
23.4 Midwest. Mississippi Valley
23.5 South. Gulf states
23.6 West
23.7 Northwest
23.8 Pacific coast
23.9 Southwest
   e.g.
   24.A4 Alaska
   24.H3 Hawaii
25.A-Z Cities or other special, A-Z
Canada
26 General works
27.A-Z Provinces or other special, A-Z

Latin America
28 General works
Mexico
29.A-Z Local or special, A-Z
Central America
30 General works
31.A-Z Special countries, A-Z
31.5 Caribbean Area
South America
32 General works
33.A-Z Special islands, A-Z
Argentina
34 General works
Bolivia
35 General works
Brazil
36 General works
37.A-Z Local or special, A-Z
38 General works
39.A-Z Local or special, A-Z
41 General works
Special countries
America
  South America
    Brazil -- Continued
    Chile
  General works
  Local or special, A-Z

Brazil

Chile

42.A-Z

43

44.A-Z

45

46.A-Z

47

48

49

50

51

52

53

54

South America

Ecuador

Guyana

Suriname

French Guiana

Peru

Uruguay

Venezuela

Europe

55

57

58.A-Z

59

59.2

59.3

60.A-Z

61

62.A-Z

63

64.A-Z

65

65.2.A-Z

65.3

65.4.A-Z

65.5

65.9.A-Z

66.A-Z

67

68.A-Z

69

70.A-Z

71

72.A-Z

72.5

Belgium

Denmark

France

Germany

Great Britain. England

General works

English counties or regions, A-Z

Ireland

General works

Irish Free State. Ireland (Eire)

Northern Ireland

Special counties, A-Z

Scotland

General works

Special counties, A-Z

Wales

Cities or other special, A-Z

Czechoslovakia

General works

Local or special, A-Z

Hungary

General works

Special counties, A-Z

Cities or other special, A-Z

Belgium

General works

Local or special, A-Z

Denmark

General works

Local or special, A-Z

France

German colonies (collectively)
Special countries

Europe

Germany -- Continued

73.1 East Germany. Eastern Germany
73.2 Baden-Württemberg
73.3 Bavaria
73.4 Hesse
73.5 Prussia
73.6 Saxony
73.7 North Rhine-Westphalia

73.9.A-Z Other states, A-Z
74.A-Z Cities or other special, A-Z
74.5 Colonies (Collectively)

Greece
75 General works
76.A-Z Local or special, A-Z

Netherlands
77 General works
78.A-Z Local or special, A-Z

Italy
79 General works
80.A-Z Local or special, A-Z
80.5 Malta

Norway
81 General works
82.A-Z Local or special, A-Z

Portugal, Azores, etc.
83 General works
84.A-Z Local or special, A-Z
84.5 Colonies (Collectively)

Russia in Europe
85 General works
86.A-Z Local or special, A-Z

Slovakia
86.6 General works
86.7.A-Z Local or special, A-Z

Spain
87 General works
88.A-Z Local or special, A-Z
88.5 Scandinavia

Sweden
89 General works
90.A-Z Local or special, A-Z

Switzerland
91 General works
92.A-Z Local or special, A-Z

95.A-Z Other regions and countries, A-Z
95.A2 Balkan Peninsula
95.A38 Albania
95.A44 Alps
95.A48 Andorra
95.B3 Baltic Sea
95.B43 Belarus
95.B45 Benelux countries
95.B9 Bulgaria
95.C37 Carpathian Mountains
Special countries

Europe

Other regions and countries, A-Z -- Continued

95.D35 Danube River
95.E75 Estonia
95.F5 Finland
95.I43 Iceland
95.L285 Lapland
95.L37 Latvia
95.L78 Lithuania
95.L9 Luxemburg
95.M4 Mediterranean Region
95.N67 North Sea
95.P7 Poland
95.P75 Pomerania (Poland and Germany)
95.R48 Rhine River
95.R6 Romania
95.S55 Slovenia
95.T48 Thrace
95.U95 Ukraine
95.Y8 Yugoslavia

Asia

99 General works

China

For Hong Kong see T1 113.H85
For Macau see T1 113.M2

101 General works
102.A-Z Local or special, A-Z

Taiwan

102.5 General works
102.6.A-Z Local or special, A-Z

South Asia

102.9 General works

India

103 General works
104.A-Z Local or special, A-Z

Pakistan

104.5 General works
104.6.A-Z Local or special, A-Z

Bangladesh

104.65 General works
104.66.A-Z Local or special, A-Z

Sri Lanka. Ceylon

104.7 General works
104.8.A-Z Local or special, A-Z

Japan

105 General works
106.A-Z Local or special, A-Z

Korea

Including South Korea

106.5 General works
106.6.A-Z Local or special, A-Z

North Korea

106.7 General works
106.8.A-Z Local or special, A-Z

Iran. Persia
Special countries

Asia

Iran. Persia -- Continued
107 General works
108.A-Z Local or special, A-Z
Russia in Asia. Siberia
109 General works
110.A-Z Local or special, A-Z
Turkey. Asia Minor
111 General works
112.A-Z Local or special, A-Z
113.A-Z Other divisions of Asia, A-Z
113.A3 Afghanistan
113.B47 Bhutan
113.B54 Borneo
113.B7 Brunei
113.B8 Burma. Myanmar
113.C16 Cambodia
113.C35 Central Asia
113.C9 Cyprus
113.G39 Gaza Strip
113.H54 Himalaya Mountains
113.H85 Hong Kong
113.I55 Indonesia
113.I7 Iraq
113.I75 Israel
113.J6 Jordan
113.K38 Kazakhstan
113.K85 Kuwait
113.L28 Laos
113.L4 Lebanon
113.M2 Macau
113.M318 Malaya
113.M32 Malaysia
113.M45 Mekong River Valley
Myanmar see T1 113.B8
113.N4 Nepal
113.O5 Oman
113.P6 Philippines
113.Q36 Qatar
113.S33 Saudi Arabia
113.S53 Singapore
113.S6 Southeast Asia
113.S94 Syria
113.T48 Thailand
113.U54 United Arab Emirates
113.V5 Vietnam
113.W48 West Bank
113.Y45 Yemen
113.5 Middle East. Near East
114 Arab countries
114.5 Islamic countries
Africa
115 General works
Egypt
117 General works
Special countries
African

118.A-Z
Local or special, A-Z
119.A-Z
Other divisions of Africa, A-Z
119.A4
Algeria
119.A5
Angola
119.B57
Botswana
Burkina Faso see T1 119.U66
119.B85
Burundi
119.C17
Cameroon
119.C42
Central Africa
119.C43
Central African Republic
119.C75
Congo (Brazzaville)
Congo (Democratic Republic) see T1 119.Z3
Côte d'Ivoire see T1 119.I9
119.D3
Dahomey
119.D55
Djibouti
119.E18
East Africa
119.E19
Eastern Africa
119.E8
Ethiopia
119.F82
French-speaking Equatorial Africa
119.F83
French-speaking West Africa
119.G23
Gabon
119.G45
Ghana
119.G92
Guinea
119.G94
Guinea-Bissau
119.I9
Ivory Coast. Côte d'Ivoire
119.K4
Kenya
119.L45
Lesotho
119.L49
Liberia
119.L74
Libya
119.M28
Madagascar
119.M3
Malawi
119.M34
Mali
119.M39
Mauritania
119.M6
Morocco
119.M85
Mozambique
Namibia see T1 119.S68
119.N53
Niger
119.N54
Nigeria
119.N6
Nile River Valley
119.R45
Rhodesia, Southern. Zimbabwe
119.R9
Rwanda
119.S18
Sahel
119.S38
Senegal
119.S5
Sierra Leone
119.S59
Somalia
119.S6
South Africa
119.S64
Southern Africa
119.S68
Southwest Africa. Namibia
119.S73
Sub-Saharan Africa
119.S74
Sudan
119.S87
Swaziland
119.T35
Tanzania
119.T64
Togo
Special countries

Africa
Other divisions of Africa, A-Z -- Continued
119.T8 Tunisa
119.U4 Uganda
119.U66 Upper Volta
119.W48 West Africa
119.Z3 Zaire. Congo (Democratic Republic)
119.Z34 Zambia
Zimbabwe see T1 119.R45

Indian Ocean islands
120 General works
120.5.A-Z Special islands, A-Z
120.5.M38 Mauritius
120.5.M39 Mayotte
120.5.R48 Réunion

Australasia
120.7 General works
Australia
121 General works
122.A-Z Local or special, A-Z
New Zealand
122.5 General works
122.6.A-Z Local or special, A-Z
122.7 Papua New Guinea

Pacific Islands
123 General works
124.A-Z By island, A-Z
Arctic regions
125 General works
125.5 Greenland
126 Antarctica
126.5 Tropics
127 Developing countries
Numbers that have been provided for "Cities or other special, A-Z," "Local or special, A-Z," or "Provinces or other special, A-Z" may be used for local subdivision, or for special entities such as canals, rivers, harbors, railroads, bridges, etc., as appropriate.

**America**

21  General works
    North America
    22  General works
        United States
        23  General works
            Eastern states. Atlantic coast
            23.15 New England
            23.2 Appalachian region
            23.3 Great Lakes region
            23.4 Midwest. Mississippi Valley
            23.5 South. Gulf states
            23.6 West
            23.7 Northwest
            23.8 Pacific coast
            23.9 Southwest
        23.10 States, A-W
            e.g.
            24.A4 Alaska
            24.H3 Hawaii
    25  Cities or other special, A-Z
        Canada
        26  General works
        27  Provinces or other special, A-Z

**Mexico**

28  General works
    29  Local or special, A-Z

**Central America**

30  General works
    31  Special countries, A-Z

**West Indies**

32  General works
    33  Special islands, A-Z

**South America**

34  General works
    Argentina
    36  General works
    37  Local or special, A-Z
        Bolivia
    38  General works
    39  Local or special, A-Z
        Brazil
    41  General works
    42  Local or special, A-Z
        Chile
    43  General works
    44  Local or special, A-Z
        Colombia
    45  General works
    46  Local or special, A-Z
    47  Ecuador
    48  Guyana
COUNTRY DIVISIONS

America
  South America -- Continued
  49  Suriname
  50  French Guiana
  51  Paraguay
  52  Peru
  53  Uruguay
  54  Venezuela

Europe
  55  General works
      Great Britain. England
        57  General works
        58.A-Z  English counties or regions, A-Z
               Ireland
        59  General works
        59.2  Irish Free State. Ireland (Eire)
        59.3  Northern Ireland
        60.A-Z  Special counties, A-Z
               Scotland
        61  General works
        62.A-Z  Special counties, A-Z
        63  Wales
        64.A-Z  Cities or other special, A-Z

Austria
  65  General works
  65.2.A-Z  Local or special, A-Z
           Czechoslovakia. Czech Republic
  65.3  General works
  65.4.A-Z  Local or special, A-Z

Hungary
  65.5  General works
  65.9.A-Z  Special counties, A-Z
  66.A-Z  Cities or other special, A-Z

Belgium
  67  General works
  68.A-Z  Local or special, A-Z

Denmark
  69  General works
  70.A-Z  Local or special, A-Z

France
  71  General works
  72.A-Z  Local or special, A-Z
  72.5  Colonies (Collectively)

Germany
  73  General works
  73.1  East Germany. Eastern Germany
  73.2  Baden-Württemburg
  73.3  Bavaria
  73.4  Hesse
  73.5  Prussia
  73.6  Saxony
  73.7  North Rhine-Westphalia
  73.9.A-Z  Other states, A-Z
  74.A-Z  Cities or other special, A-Z
  74.5  Colonies (Collectively)

Greece
Europe
Greece -- Continued
75
General works
76.A-Z
Local or special, A-Z
Netherlands
77
General works
78.A-Z
Local or special, A-Z
Italy
79
General works
80.A-Z
Local or special, A-Z
80.5
Malta
Norway
81
General works
82.A-Z
Local or special, A-Z
Portugal, Azores, etc.
83
General works
84.A-Z
Local or special, A-Z
84.5
Colonies (Collectively)
Russia in Europe
85
General works
86.A-Z
Local or special, A-Z
Slovakia
86.6
General
86.7.A-Z
Local or special, A-Z
Spain
87
General works
88.A-Z
Local or special, A-Z
88.5
Scandinavia
Sweden
89
General works
90.A-Z
Local or special, A-Z
Switzerland
91
General works
92.A-Z
Local or special, A-Z
95.A-Z
Other regions and countries, A-Z
95.A38
Albania
95.A44
Alps
95.A48
Andorra
95.B28
Balkan Peninsula
95.B3
Baltic Sea
95.B36
Banat
95.B43
Belarus
95.B45
Benelux countries
95.B9
Bulgaria
95.C37
Carpathian Mountains
95.D35
Danube River
95.E88
Estonia
95.F5
Finland
95.I43
Iceland
95.L285
Lapland
95.L37
Latvia
95.L78
Lithuania
95.L9
Luxemburg
95.M4
Mediterranean Region
95.M66
Montenegro
95.N67
North Sea
Europe

Other regions and countries, A-Z -- Continued

95.P7  Poland
95.P75  Pomerania (Poland and Germany)
95.R48  Rhine River
95.R6  Romania
95.S47  Serbia
95.S57  Slovenia
95.T38  Tatra Mountains (Slovakia and Poland)
95.T48  Thrace
95.U95  Ukraine
95.Y8  Yugoslavia

Asia

99  General works
  China
    For Hong Kong see T1a 113.H85
    For Macau see T1a 113.M2
101  General works
102.A-Z  Local or special, A-Z

Taiwan
102.5  General works
102.6.A-Z  Local or special, A-Z

South Asia
102.9  General works
  India
103  General works
104.A-Z  Local or special, A-Z
  Pakistan
104.5  General works
104.6.A-Z  Local or special, A-Z
  Bangladesh
104.65  General works
104.66.A-Z  Local or special, A-Z
  Sri Lanka. Ceylon
104.7  General works
104.8.A-Z  Local or special, A-Z

Japan
105  General works
106.A-Z  Local or special, A-Z

Korea
  Including South Korea
106.5  General works
106.6.A-Z  Local or special, A-Z

North Korea
106.7  General works
106.8.A-Z  Local or special, A-Z

Iran. Persia
107  General works
108.A-Z  Local or special, A-Z

Russia in Asia. Siberia
109  General works
110.A-Z  Local or special, A-Z

Turkey. Asia Minor
111  General works
112.A-Z  Local or special, A-Z
113.A-Z  Other divisions of Asia, A-Z
Asia
Other divisions of Asia -- Continued

113.A3 Afghanistan
113.A98 Azerbaijan
113.B54 Borneo
113.B7 Brunei
113.B8 Burma, Myanmar
113.C16 Cambodia
113.C9 Cyprus
113.G39 Gaza Strip
113.H54 Himalaya Mountains
113.H85 Hong Kong
113.I55 Indonesia
113.I7 Iraq
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23 General works
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   71  General works
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78.A-Z
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119.G92  Guinea
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124.25  Greenland
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124.5  Developing countries
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Guidebooks
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  .A2A-.A2Z  Others, A-Z

Histories and descriptions
  .B1  General works
  .B2  General special
  .C1  Collections of pictures, views, etc.

Official publications
  Acts of incorporation, rules, organization, etc.
  .D1  General works
  .D13  Translations of acts
  .D15  Rules, regulations, etc.
  .D2  General reports, proceedings, etc., of governing board
  .D25  Reports of national (government) commission
  .D3  General reports of special boards, commissions, etc.
  .D4  Congressional hearings and reports of national government on appropriations, etc. By date
  .D5  Special reports. By date
       General catalogs
  .D6  Official. By date
  .D7  Nonofficial
       Subarranged by author
  .D8  Reports and awards of jurors
  .D9  Miscellaneous printed matter
  .E1  Official comprehensive reports on the exhibits by editorial commissions, etc. By date
  .E1A-.E1Z  General official reports of other countries on exhibitions

Exhibits of the country in which the exhibition is held
  .F1  Collective
       Class here general only; special with subject
  .F2  Government exhibit
  .F3  State exhibits, etc.
  .G1  Exhibits of other countries
       Cf. T2 .E1A+ General official reports on exhibitions

Parts of the exposition
  .H1  Works on various exhibits which cannot well be classified with any one subject, e. g. a work on an
       educational exhibit goes in class L, Education, subdivision Exhibits, but a work on Machinery
       hall is classed here

Exhibits arranged by names of exhibitors
  .K1  Works on various exhibits which cannot well be classified with any one subject, e. g. a work on an
       educational exhibit goes in class L, Education, subdivision Exhibits, but a work on Machinery
       hall is classed here

Miscellaneous
  .L1  Other than .A1-.K1
  .N1  Congresses. General reports
General works, histories, etc.

Official works

By author, A-Z

Regular reports of the fire department or fire commissioner, chief engineer, superintendent, fire marshal, etc.

Special bureau reports. Fire patrol bureau reports

Special reports and petitions. By date

Reports of commissions, committees, investigations. By date

Laws, ordinances, regulations

see KFA+

Manuals and lists of alarm stations or boxes

Examinations. Admission to fire service (Civil service, etc.)

Pensions, relief, etc.

Fire companies. Conventions, etc.

General works

Paid companies. History, etc.

Volunteer companies. Constitution, by-laws, history, etc.

Veteran associations

Local fire equipment. Engines, enginehouses, etc.

Various unofficial publications
General works, histories, etc.

.A2-.A5  Official works
.A6-.Z  By author, A-Z
01  Regular reports of the fire department or fire commissioner, chief engineer, superintendent, fire
    marshall, etc.
02  Special bureau reports. Fire patrol bureau reports
03  Special reports and petitions. By date
04  Reports of commissions, committees, investigations. By date
    Laws, ordinances, regulations
    see KFX
06  Manuals and lists of alarm stations or boxes
065  Examinations. Admission to fire service (Civil service, etc.)
068  Pensions, relief, etc.
    Fire companies. Conventions, etc.
07  General works
1  Paid companies. History, etc.
074  Volunteer companies. Constitution, by-laws, history, etc.
077  Veteran associations
08  Local fire equipment. Engines, enginehouses, etc.
09  Various unofficial publications
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### Abbreviations

- **Industrial engineering**: T55.52
- **Technology**: T8
- **Ablative materials**: Engineering: TA418.9.A25
- **Abrading machinery**: Machine shops: TJ1280+
- **Abrasives**
  - Abrading machinery: TJ1296+
  - Engineering materials: TA455.A3
  - Mining engineering: TN936
- **ABS resins**
  - Plastics: TP1180.A15
- **Absinthe**
  - Distilled liquors: TP607.A27
- **Absorption of gases**
  - Chemical engineering: TP156.A3
- **Abstract photography**: TR656
- **Abutments**
  - Bridges: TG325
  - Buildings: TH2255
- **Acabion automobiles**: TL215.A235
- **Accelerator-driven systems**
  - Nuclear engineering: TK9203.A28
- **Accelerometers**
  - Aeronautical instrument: TL589.2.A3
- **Acceptance sampling**
  - Production management: TS156.4
- **Access control**
  - Internet: TK5105.8855
- **Access for people with disabilities**
  - House remodeling: TH4816.15
  - Transportation engineering: TA1285
- **Access to airports**: TL725.3.A2
- **Accident prevention**
  - Building construction: TH443
  - Accident prevention, Industrial: T55+

### Accidents

- **Aeronautics**: TL553.5+
- **Balloons**: TL612
- **Chemical technology**: TP150.A23
- **Metallurgical plants**: TN676.A1+
- **Nuclear engineering**: TK9152+
- **Petroleum pipelines**: TN879.55
- **Accidents and their prevention**
  - Well drilling: TN871.215
- **Accidents, Bridge**: TG470
- **Accounting machines**: TK4100+
- **Accounts, Household**: TX326.A1+
- **Accumulators in central stations**
  - Dynamoelectric machinery: TK2891
- **Accuracy of fitting**
  - Machine shop practice: TJ1167
- **Acetate resins**
  - Plastics: TP1180.A33
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