



ENCYCLOPEDIA AMERICANA

VOLUME 30

THE ENCYCLOPEDIA
AMERICANA
INTERNATIONAL EDITION

COMPLETE IN THIRTY VOLUMES
FIRST PUBLISHED IN 1829



GROLIER INCORPORATED

International Headquarters: Danbury, Connecticut 06816

COPYRIGHT © 1985 BY GROLIER INCORPORATED

COPYRIGHT © BY GROLIER INCORPORATED:
1984, 1983, 1982, 1981

COPYRIGHT © BY AMERICANA CORPORATION:

1980, 1979, 1978, 1977, 1976, 1975, 1974, 1973,
1972, 1971, 1970, 1969, 1968, 1967, 1966, 1965,
1964, 1963, 1962, 1961, 1960, 1959, 1958, 1957,
1956, 1955, 1954, 1953, 1952, 1951, 1950, 1949,
1948, 1947, 1946, 1945, 1944, 1943, 1942, 1941,
1940, 1939, 1938, 1937, 1936, 1932, 1931, 1929,
1927

COPYRIGHT BY ENCYCLOPEDIA AMERICANA CORPORATION:
1924, 1922, 1920, 1918

COPYRIGHT PHILIPPINES: 1972, 1979, 1980, 1984, 1985 BY
GROLIER INTERNATIONAL, INC.

COPYRIGHT UNDER INTERNATIONAL COPYRIGHT CONVENTIONS AND UNDER
PAN AMERICAN COPYRIGHT CONVENTIONS

ALL RIGHTS RESERVED UNDER INTER-AMERICAN COPYRIGHT UNION

Library of Congress Cataloging in Publication Data

Main entry under title:

THE ENCYCLOPEDIA AMERICANA.

Includes bibliographies and index.

1. Encyclopedias and dictionaries.

AE5.E333 1985 031

84-22553

ISBN 0-7172-0116-3 (set)

PRINTED AND MANUFACTURED IN THE U.S.A.

GUIDE TO THE USE OF THE ENCYCLOPEDIA AMERICANA INDEX

Proper use of this Index is essential if the reader is to find the information he is seeking. A few minutes spent in reading this guide will save time and trouble in locating the desired information.

BASIC PRINCIPLES

The *entry* is the basic unit of the Index. It includes a heading, and it may include subheads and *see also* cross references. The *heading* stands at the beginning of the entry and determines its alphabetical position. It is followed by the volume and page number that will lead the searcher to the best general information on the subject. *Subheads*, which lead to more particular information, are listed in alphabetical order below the heading. *See also* cross references are used to direct the searcher to other entries that are related to the heading.

The Index has three types of entries: (1) Article title entries. The headings of these entries are set in boldface capital letters and are followed by volume and page numbers indicating where the article appears in the encyclopedia.

Examples:

BASKET 3-319
CROMWELL, Oliver 8-237

(2) Entries on subjects for which there are no articles, but which are covered in other articles. The headings of these entries are set in boldface capital and lowercase letters.

Examples:

Basque language 3-332
Bass drum 9-422

(3) *See* cross references, which refer the reader from one Index entry to another. They are used for synonyms, pseudonyms, and abbreviations; for inverted headings; and for alternative spellings or forms.

Examples:

Isle of Man, Ir. Sea: *see* **Man**,
Isle of
NASA: *see* National Aeronautics
and Space Administration
Petrograd, USSR: *see* Leningrad

See also cross references direct the reader to related entries or to specific subdivisions of long entries.

Examples:

CALVIN, John (Fr. ref.) 5-237
See also Calvinism
TAXONOMY (sci.) 26-324
See also Animal—*Classification*; Plant—*Classification*
TRANSPORTATION 27-19
See also Carriages; Motor
transportation; Railroads;
Roads and Highways

Many subjects are organized in the Index in the form of extensive outlines or study guides. To avoid a cumbersome listing of many subheads in a single alphabetical sequence, the general subject is broken down into subdivisions. Under each subdivision all pertinent references are listed. The reader is thus presented with an overall view of the coverage of the subject and at the same time can limit his search for specific information to the subdivision under which it may be found. Examples of such outlines or study guides are the listings for all continents and most countries of the world, and for such topics as American Revolution, Architecture, Chemistry, and Black Americans.

• ALPHABETIZATION AND ARRANGEMENT OF ENTRIES

The headings of the entries are arranged in alphabetical order by word, not by letter. Thus any heading beginning with "New" as

GUIDE TO THE USE OF THE AMERICANA INDEX

a separate word (such as New Canaan or New York) is placed before any heading beginning with "New-" (such as Newark or Newburgh).

When headings of more than one word have the same first word, alphabetical order is determined by the second word; if the first two words are identical, alphabetical order is determined by the third word, and so on. Inverted headings are alphabetized down to the punctuation mark. Then alphabetization is determined by the word or words following the punctuation mark.

Examples:

EAST AFRICA
EAST RIVER

ESSAY ON CRITICISM
ESSAY ON MAN

FILTER, Electric
FILTER, Mechanical
FILTER, Photographic

Headings consisting of the same words are arranged in the order of persons, places, and things.

Examples:

ADAMS, William Taylor
ADAMS, Mass.
ADAMS, Mount, N.H.
Adams Act

BONE, Henry
BONE, Alg.
BONE (anat.)

Hyphenated words are treated as two separate words unless the first part of the word is a prefix.

Examples:

ANTIPOPE
Anti-poverty program
Antiproton

BLUE BABY
BLUE-BACKED SPELLER
Blue beech

Abbreviations and abbreviated forms are treated as one word.

Examples:

ABBREVIATIONS
ABC POWERS
ABD AL-AZIZ IV

Uffizi Gallery
UFO
UGANDA

Headings such as titles of books, works of art, and films are alphabetized under the second word if the first word is an article ("a," "an," "the").

Examples:

American Dream, The
AMERICAN TRAGEDY, An

Red Room, The
Red Snowball Tree, The

However, a preposition at the beginning of a title is treated as the first word and is not inverted.

Examples:

In Cold Blood
IN MEMORIAM
Inbreeding
INCA

Oestrus
OF HUMAN BONDAGE
OF MICE AND MEN
OMUTA
On Borrowed Time
One

When foreign phrases (but not proper names) begin with a preposition such as "Da" or "De," the preposition is treated as a separate word.

Examples:

Da capo
Daba

De bello gallico
De vulgari eloquentia
DEACON

Proper names beginning with "De," "Du," "El," "La," "Van," and other such particles are treated as if they were one word.

Examples:

DEFOLIANT
DE FOREST, Lee
Deforestation

DUBLINERS
DUBOIS, Paul
DU BOIS, W. E. B.
DUBOS, René Jules

ELAINE
EL ALAMEIN, Battle of
ELAM

Laveran, Charles Louis Alphonse
LA VERENDRYE, Sieur de
Lavinia

VANADIUM
VAN ALLEN RADIATION
Van Cortlandt Manor
VANCOUVER

Non-English personal surnames are generally alphabetized with the connective inverted.

Examples:

BEETHOVEN, Ludwig van
CUNHA, Euclides da
MAUPASSANT, Guy de

Names beginning with "M," "Mac," and "Mc" are alphabetized as they are spelled.

Examples:

MABINOGION
MACAULAY, Thomas Babington
MacDIARMID, Hugh
MADISON, Ind.
MARMOT
Mbuti
McHENRY, James
McWILLIAMS, Carey
MEDICI, Lorenzo de

Saints are generally listed under their first names.

Examples:

FRANCIS OF ASSISI, Saint
GENEVIEVE, Saint
VINCENT DE PAUL, Saint

However, if saints are commonly referred to by a surname, they are alphabetized under that name.

Examples:

BOSCO, Saint John
FISHER, Saint John

Numerals at the beginning of a heading are treated as though spelled out.

Examples:

Twentieth Century Views
24-hour system
Twenty-one

Titled persons best known by family name are entered under that name, followed by title. In this case the title does not affect the alphabetical order.

Examples:

STEWART, James (Amer. act.)
Stewart, Matthew (4th Earl of
Lennox) (Scot. noble.)
Stewart, Nellie (Austr. act.)

But persons best known by title are listed accordingly. In this case the part of the title indicating rank is ignored in alphabetizing.

Examples:

YORK, Dukes of
YORK, Alvin Cullum

Literary characters are entered under their last names.

Examples:

Dooley, Mr.
EULENSPIEGEL, Tili

But titles of literary works are entered under the first word even when the first word is a given name or a title.

Examples:

Mrs. Dalloway, nov. (Woolf)
Sir Charles Grandison, nov.
(Richardson)
TOM SAWYER, nov. (Twain)

The abbreviations "Mr." and "Mrs." are alphabetized as though they were spelled "Mister" and "Mistress."

Examples:

Mist
Mr. Midshipman Easy
Mrs. Dalloway
MISTRIAL

Persons with the same surname and given name are alphabetized by nationality. If the nationality is also the same, they are listed in order of birth and death dates.

Examples:

DUMMER, Jeremiah (Amer. silversmith: 1645-1718)
DUMMER, Jeremiah (Amer. col. agent: 1679-1739)

Saints and rulers of the same name are listed in the following order: saints, popes, secular rulers (by realm).

GUIDE TO THE USE OF THE AMERICANA INDEX

Examples:

ALEXANDER, Saint
 ALEXANDER I, Saint (pope)
 ALEXANDER II (pope)
 ALEXANDER I (Bulg. pr.)
 ALEXANDER (Gr. k.)
 Alexander (Pol. k.)
 ALEXANDER I (Russ. emp.)
 ALEXANDER II (Russ. emp.)
 ALEXANDER I (Scot. k.)
 ALEXANDER II (Scot. k.)

JAMES, Saint
 JAMES I (k. Aragon)
 JAMES II (k. Aragon)
 JAMES I (Eng. k.)
 JAMES II (Eng. k.)
 JAMES III (Eng. pretender)
 JAMES I (Scot. k.)
 JAMES II (Scot. k.)

Political units of the same name are listed in order of importance (country, province or state, county, city or town), and the city is not identified as such.

Examples:

NEW YORK, state, U.S.
 New York, co., N.Y.
 NEW YORK, N.Y.

WASHINGTON, state, U.S.
 Washington, co., Md.
 WASHINGTON, D.C.

Cities and towns of the same name are alphabetized according to country, except for those in the United States and Canada, which are alphabetized by state or province.

Examples:

ALEXANDRIA, Egy.
 ALEXANDRIA, La.
 ALEXANDRIA, Ont., Can.
 ALEXANDRIA, Va.

BATHURST, Austr.
 Bathurst, Gambia
 BATHURST, N.B., Can.

• ILLUSTRATIONS AND MAPS

Illustrations and maps on numbered pages are referred to by volume and page number. Color illustrations and maps on unnumbered pages are located by reference to the volume numbers and the titles of the articles in which they appear.

Examples:

AMAZON RIVER, S.Amer. 1-657,
 673; 17-11, 36
Illus.: houseboats 17-13
Maps 1-657; 4-457; 25-
 SOUTH AMERICA
 BERN, Switz. 3-603; 26-146
Illus. 26-SWITZERLAND

• SPECIAL PAGING PRACTICES

Sometimes when extra pages have been added to the encyclopedia, a letter of the alphabet has been added to the page number both on the page itself and in the Index reference to it. For example, the reader will find pages in volume 29 numbered in order: 741, 741a, 741b, 741c 742. This will be shown in the Index references to those pages as: 29-741, 741a, 741b, 741c 742. In several places in the encyclopedia, there are "telescoped" pages. In volume 7, for example, pages are numbered consecutively: 545, 546, 547-559, 560, 561. However, in the Index, the reference to page 547-559 appears as 7-547, only the first number being given.

TYPOGRAPHY OF THE INDEX

<i>Example</i>	<i>Use</i>	<i>Style</i>
19–376	<i>Volume and page number</i>	Volume number in boldface (heavy) type, followed by page number in lightface type
HINDUISM 14–207	<i>Article title entry</i>	Boldface type, all capital letters
BASKET 3–319 Africa 1–273 Osier 21–20 Weaving 28–543	<i>Article title entry, followed by subheads for additional information.</i>	Subheads in lightface type
Basque language 3–332	<i>Entry on subject for which there is no article</i>	Boldface type; initial letter only is capitalized
<i>Duenna, The</i> , comic opera (Sheridan) 24–704	<i>Entry (by name) for book, periodical, work of art or music, ship, and others; not an article title entry</i>	Boldface italic type
Illus. 28–VERMONT OR Map 17–LIBRARY	<i>Reference to illustration or map on unnumbered page, giving volume number and name of article in which illustration or map can be found</i>	Lightface capital and small capitals
—: CULTURAL LIFE —: GOVERNMENT —: HISTORY	<i>Subdivisions under long entry; for complete example, see “Study outline” on page viii</i>	Boldface capitals and small capitals, preceded by a dash and a colon

Collision radiation (phys.): see Bremsstrahlung
Collision theory (astron.) 2-551
 Earth 9-541
COLLODI, Carlo (It. au.) 7-259
Pinocchio 22-118
COLLODION (chem.) 7-260
 Hyatt, J. W. 14-628
 Photography 22-11
 Pyroxilin 23-44
Colloidian process (phot.) 21-798c
 Film, Photographic 11-206
Collograph (print.) 22-600
COLLOID (chem.) 7-260
 Brownian Movement 4-636
 Electrophoresis 10-195
 Graham, T. 13-147
 Suspension 26-77
 Ultramicroscope 27-352
 X-Rays 29-617
 Zsigmondy, R. 29-817
 See also Emulsion
Colloidal carbon (chem.) 7-261
Collophanite (min.) 2-88
COLLOQUALISMS (ling.) 7-262; 25-16
COLLOQUIES OF ERASMUS, satire (Erasmus) 7-262
Colloquy, bk. (Aelfric) 1-214
Colloquy of Caen (Fr. sci meeting) 11-843
Collet, Jacques (Fr. etcher): *Illus.: Mseries of War* 10-465
COLLOT D'HERBOIS, Jean Marie (Fr. rev.) 7-262
Collootype (print.):
 Lithography 17-588
 Woodburytype Printing 29-139
COLLUSION (law) 7-262
COLMAN, George (Eng. dram., theat. mgr.): 1732-1794) 7-263; 10-443
Colman, George (Eng. theat. mgr.): 1762-1836) 7-263
Colman, Norman Jay (Amer. agronomist) 1-359
COLMAN, Ronald (Britt.-Amer. act.) 7-263
COLMAR, Fr. 7-263
 World War II 29-410, 412, 413
COLNE, Eng. 7-263
Colnett, James (Brit. nav. off.) 12-227
Coloane, isl., Macao 18-4
COLOBUS MONKEY (zool.) 7-263
COLOCYNTH (fruit) 7-263
Cologhli (Libyan people) 17-400
 Tripolitania 27-124
COLOGNE, Ger. 7-264
 art and architecture 12-544
 Enamel 10-325
 history 12-664
 Newspaper 20-291
 university 7-265
 World War II 29-413
Illus.: cathedral 10-674, Severin Bridge 4-532
Cologne, Archbishop of 7-265, 821
Cologne, Cathedral of, Ger. 7-264; 12-545
 Bell 3-509
 Gothic Art 13-109; 2-228
 Stained Glass 25-565
Illus. 7-264
Cologne, Eau de (perfume): see Eau de Cologne
COLOGNE, University of, Ger. 7-265
Cologne Bible 29-132
Cologne Confederation (Ger. hist.) 13-778
Coloma, Calif. 5-211
Coloman (Hung. k.): see Koloman
COLOMB, Philip Howard (Brit. adm.) 7-265
COLOMB-BECHAR, Alg. 7-265
COLOMBA, nov. (Mérimee) 7-265; 18-726

Colomban (Frank. abbot. comp.) 3-496
COLOMBE, Michel (Fr. sculp.) 7-265
COLOMBIA, rep., S.Amer. 7-266; 17-1 fol., 34; 25-295
 Decorations 8-601
 defense 17-33
 earthquakes 9-161
 Flag 11-356; *illus.* 11-FLAG
 forest 25-291
 government 7-273; 17-32, 44
 Holiday 14-291
 homicide rate 8-198
 national flower 11-460
 savanna 25-291
 Yellow Fever 29-661
 —: **ECONOMY:** 7-269
 agriculture 7-269; 1-357; 17-14, 15, 43
 Coca 7-160
 Coffee 7-191
 Cotton 8-80
 Emerald 10-303
 Gem 12-368
 Hydroelectric Power 14-649
 manufacturing 17-17
 minerals 17-13, 15, 16; 25-292
 Palms 21-216
 petroleum 1-813
 Wheat 28-690
 —: **EDUCATION AND CULTURAL LIFE:** 7-272
 Academy 1-71
 art 7-272
 Colombia, National University of 7-277
 Extension Education 10-796
 Garcia Marquez, G. 12-289
 Goldwork and Silverwork 13-48
 Indian arts 15-44; 17-26
 Library 17-333 fol.
 literature 7-272
 mass media 17-30
 music 7-272
 Silva, J. A. 24-825
 —: **HISTORY:** 7-274; 17-40; 1-673
 Bogotá 4-139
 Bolivar, S. 4-161, 162
 Cannibalism 5-544
 Chibcha Organization 15-35
 Comunero Revolt 25-165
 Gomez, L. 13-65
 Herran, P. A. 14-152
 Jiménez de Quesada 16-146
 Lleras Camargo, A. 17-627
 Lleras Restrepo, C. 17-627
 Lopez Pumarejo, A. 17-738
 New Granada 20-167
 Núñez, R. 20-544
 Organization of American States 20-847
 Panama Canal 21-228, 234
 Peru 21-650
 Reyes, Rafael 23-460
 Santander, F. de P. 24-243
 United Nations 27-467
 United States 27-745k, 753
 Woman Suffrage 29-106, 107
 World War I 29-335
 —: **PHYSICAL FEATURES:** 7-268; 25-285 fol.
 Andes 1-811
 Caquetá River 5-613
 Cauca River 6-84
 climate 1-814; 25-290
 Darien, Gulf of 8-499
 Llanos 17-626
 —: **POPULATION AND RELIGION:** 7-267
 Chibcha 6-420
 Indians, American 15-34, 35, 43
 mestizo 17-7
 —: **TRANSPORTATION AND COMMUNICATIONS:** 7-270, 273; 17-18
 Newspaper 20-291
 radio and television 23-121m
 Telephone 26-401
 Waterways 28-491
 —: **MAPS:** 7-271; 25-SOUTH AMERICA

Illustration on unnumbered page

Study outline

Maps

Cross reference for additional material

Same last name, arranged by first name

Illustrations on numbered pages

Main cross reference

Book entry

ABBREVIATIONS USED IN THE INDEX

A

abbr. abbreviation
abol. abolitionist
Aby. Abyssinia; Abyssinian
acad. academy; academic
act. actor; actress
A.D. Anno Domini
adm. admiral
admin. administrator; administration; administrative
adven. adventurer
advtg. advertising
AEF American Expeditionary Force
Aeg.S. Aegean Sea
aero. aeronaut; aeronautics; aeronautical
Afg. Afghanistan
Afr. Africa; African
agr. agriculture; agricultural; agriculturalist
Ala. Alabama
Alas. Alaska
Alban. Albania; Albanian
Alg. Algeria; Algerian
Alta. Alberta
Amer. America; American
Amerind American Indian
anat. anatomy; anatomist
anc. ancient
Ang. Angola; Angolese
Ang.-Sax. Anglo-Saxon
Angl. Anglican
Antarc. Antarctica
anthro. anthropology; anthropologist
antiq. antiquities; antiquarian
Arab. Arabia; Arabian; Arabic
arch. architecture; architect; architectural
archaeo. archaeology; archaeological; archaeologist
archbp. archbishop
archip. archipelago
Arct. Arctic
Arg. Argentina; Argentine
arith. arithmetic
Ariz. Arizona
Ark. Arkansas
Arm. Armenia; Armenian
art. artist
Asia M. Asia Minor
assn. association
ASSR Autonomous Soviet Socialist Republic
Assyr. Assyria; Assyrian
astro. astronaut; astronautics; astronomical
astrol. astrology; astrologer
astron. astronomy; astronomer; astronomical
astrophys. astrophysics; astrophysicist
Ath. Athenian
athl. athlete; athletics
Atl.O. Atlantic Ocean
au. author
Aus. Austria; Austrian
Austr. Australia; Australian

aut. autonomous
auto. automobile
autobiog. autobiography
Az. Azores

B

b. born
Babyl. Babylonia; Babylonian
bact. bacteriology; bacteriologist
Bah. Bahamas; Bahamian
Bal. Isls. Balearic Islands
bank. banker; banking
Bav. Bavaria; Bavarian
B.C. Before Christ
B.C. British Columbia
Belg. Belgium; Belgian
Ber. Bermudas
bev. beverage
Bhu. Bhutan; Bhutanese
Bib. Bible; Biblical
bibliog. bibliography; bibliographer
biochem. biochemistry; biochemist
biog. biography; biographer
biol. biology; biologist
bk. book
bldg. building
Bohem. Bohemia; Bohemian
Bol. Bolivia; Bolivian
Bor. Borneo
boro. borough
bot. botany; botanist
bp. bishop
Braz. Brazil; Brazilian
Brit. British
bro. brother
bsman. businessman
Bulg. Bulgaria; Bulgarian
Bur. Burma; Burmese
B.W.I. British West Indies
Byz. Byzantine

C

c. about (circa)
C.Afr. Central Africa
C.Afr.Rep. Central African Republic
Calif. California
Camb. Cambodia
C.Amer. Central America; Central American
Camer. Cameroon
Can. Canada; Canadian
Can.Isls. Canary Islands
capit. capitalist
capt. captain
card. cardinal
Carib. Caribbean
caric. caricature; caricaturist
cartog. cartography; cartographer
C.Asia Central Asia
cath. cathedral
Cauc. Caucasasia; Caucasus
Celt. Celtic

cent. century
Cey. Ceylon; Ceylonese
champ. champion
chan. channel
Chan.Isls. Channel Islands
char. character
chem. chemistry; chemist
Chil. Chilean
Chin. Chinese
choreog. choreography; choreographer
Chr. Christian
chron. chronology
class. classical
cler. clergyman
co. company; county
Co. Company
col. colonel; colonial; colonist; colony
coll. college
colloq. colloquial
Colo. Colorado
Colom. Colombia; Colombian
com. commerce; commercial
Com. Communist
comdt. commandant
comm. commander; commission; committee
commun. communications
comp. composer; composition
conch. conchology; conchologist
cond. conductor
Confed. Confederate
cong. congressman; congresswoman
Cong. Congolese
Conn. Connecticut
conspir. conspirator
Corp. Corporation
Cors. Corsica; Corsican
Costa R. Costa Rica; Costa Rican
crim. criminal
criminol. criminology; criminologist
crit. critic; critical work; criticism
Croat. Croatia; Croatian
crystall. crystallography
C.Verd.Isls. Cape Verde Islands
Czech. Czechoslovakia; Czechoslovakian

D

d. died
Dah. Dahomey; Dahomean
Dan. Danish
dau. daughter
D.C. District of Columbia
dec. decoration
Del. Delaware
Den. Denmark
dent. dentist; dentistry
depend. dependency
dept. department
dermatol. dermatology; dermatologist

ABBREVIATIONS USED IN THE INDEX

des. desert
diag. diagram
dial. dialect
dict. dictator; dictionary
dipl. diplomat; diplomacy
dir. director
dist. district
div. division
doc. document; documentary
Dom.Rep. Dominican Republic
dram. drama; dramatist
Du. Dutch
dyn. dynasty

E

E. East; Eastern
E.Afr. East Africa; East African
eccl. ecclesiastic; ecclesiastical
econ. economics; economist
Ecua. Ecuador; Ecuadorian
ed. editor; edition
educ. education; educational; educator
E.Ger. East Germany
Egy. Egypt; Egyptian
Egyptol. Egyptologist
E.Ind. East Indies
elec. electrical; electricity
electrochem. electrochemistry; electrochemical
electron. electronic; electronics
El Salv. El Salvador
embryol. embryology; embryologist
emp. emperor; empire; empress
ency. encyclopedia; encyclopedist
Eng. England; English
eng. engineering; engineer
engr. engraving; engraver
entom. entomology; entomologist
E.Orth. Eastern Orthodox
Equat. Guin. Equatorial Guinea
Erit. Eritrea
Est. Estonia; Estonian
est. established; estuary
Eth. Ethiopia; Ethiopian
ethnol. ethnology; ethnologist
etymol. etymology; etymologist
Eur. Europe; European
evang. evangelical; evangelist
exec. executive
expl. explorer
ext. extinct

F

f. father
Falk.Isls. Falkland Islands
fam. family
fed. federal; federation
fig. figure
Fin. Finland
fin. finance; financial; financier
Finn. Finnish
fl. flourished
Fla. Florida

Flem. Flemish
fol. following
for. forestry
fort. fortification; fortified
Fr. France; French
Fr.Gui. French Guinea
Fr.W.Afr. French West Africa
Frank. Frankish
ft. fort
fun. furniture
F.W.I. French West Indies

G

Ga. Georgia
gen. general
geneal. genealogy; genealogist
geod. geodesy; geodetic
geog. geography; geographer
geol. geology; geologist
geom. geometry
geophys. geophysical; geophysicist; geophysics
Ger. Germany; German
Gib. Gibraltar
Goth. Gothic
gov. governor
govt. government
Gr. Greece; Greek
gram. grammar; grammarian
Green. Greenland
Gt.Brit. Great Britain
Guat. Guatemala; Guatemalan
gynecol. gynecology; gynecologist

H

h. husband
Hait. Haitian
Haw. Hawaii; Hawaiian
Heb. Hebrew
her. heraldry
herp. herpetology; herpetologist
hieroglyphics
Hind. Hindustan
hist. history; historian; historical
Holl. Holland
Hond. Honduras; Honduran
hort. horticulture; horticulturist
hum. humanist
human. humanitarian
Hung. Hungary; Hungarian
hydrog. hydrography

I

Ice. Iceland; Icelandic
ichth. ichthyology; ichthyologist
Ill. Illinois
illus. illustration; illustrator
inc. incorporated
Ind. Indiana
Ind.-Eur. Indo-European
Ind.O. Indian Ocean
Indon. Indonesia; Indonesian
indus. industry; industrialist
ins. insurance
inscr. inscription

inst. institute; institution
instru. instrument
internat. international
inv. inventor
Ir. Irish
Iran. Iranian
Ire. Ireland
isl., isls. island; islands
Isr. Israel; Israeli
isth. isthmus
It. Italian; Italy
Iv.Cst. Ivory Coast

J

Jam. Jamaica; Jamaican
Jap. Japan; Japanese
Jav. Java; Javanese
Jew. Jewish
Jor. Jordan; Jordanian
jour. journal; journalist; journalism
jr. junior
jur. jurist
jurisp. jurisprudence

K

k. king or kings
Kans. Kansas
king. kingdom
Kor. Korea; Korean
Ky. Kentucky

L

La. Louisiana
Lab. Labrador; Labradorean
lang. language
Lao. Laotian
Lap. Lapland
Lat. Latin
latv. Latvia; Latvian
law. lawyer
Leb. Lebanon; Lebanese
leg. legislature; legislator; legislation; legislative
legd. legend; legendary
lexicog. lexicographer
L.I. Long Island
Lib. Liberia; Liberian
lib. library; librarian
Liecht. Liechtenstein
lieut. lieutenant
ling. linguist; linguistics
lit. literary; literature
Lith. Lithuania; Lithuanian
lith. lithograph; lithography; lithographer
Lond. London
Ltd. Limited
Luxem. Luxembourg; Luxembourger

M

m. mother
Maced. Macedonia; Macedonian
mach. machine
Mad. Madagascar
Mad.Isls. Madeira Islands
mag. magazine
Malag.Rep. Malagasy Republic

Malay. Malaya; Malaysia; Malaysian
Mald.Isls. Maldive Islands
Man. Manitoba
Manch. Manchuria
mar. maritime
Mass. Massachusetts
math. mathematics; mathematician
Maur. Mauritius
Maurit. Mauritania; Mauritanian
Md. Maryland
Me. Maine
meas. measure; measurement
mech. mechanics; mechanic; mechanical
med. medicine; medical
Medit. Mediterranean
mer. merchant
Mesop. Mesopotamia; Mesopotamian
met. metaphysics; metaphysicist
metal. metallurgy; metallurgist
metallo. metallography
meteorol. meteorology; meteorologist
Mex. Mexico; Mexican
mfr. manufacture; manufacturer
mgr. manager
Mich. Michigan
mil. military
mil.p. military post
min. mineral; mineralogy; mineralogist; mining
minis. minister
Minn. Minnesota
Miss. Mississippi
miss. missionary
mo. month
Mo. Missouri
Moham. Mohammedan
Mong. Mongolia; Mongolian
Mont. Montana
Monten. Montenegro; Montenegrin
Moor. Moorish
Mor. Morocco; Moroccan
Moz. Mozambique
MS.; ms. manuscript
mt.; mts. mount; mountain; mountains
mun. municipal; municipality
mus. music; musician; musical; musicologist
Mus. Muslim
myth. mythology; mythological

N

N. North; Northern
N.Afr. North Africa; North African
N.Amer. North America
nat. naturalist
nat. hist. natural history
natl. national
NATO North Atlantic Treaty Organization
naut. nautical
nav. naval
navig. navigator; navigation
N.B. New Brunswick

N.C. North Carolina
N.Dak. North Dakota
Nebr. Nebraska
N.Eng. New England
Neth. Netherlands
Neth.Ant. Netherlands Antilles
neurol. neurology; neurologist; neurological
Nev. Nevada
Newf. Newfoundland
news. newspaper
N.Guin. New Guinea
N.H. New Hampshire
Nicar. Nicaragua; Nicaraguan
nick. nickname
Nig. Nigeria; Nigerian
N.Ire. Northern Ireland
N.J. New Jersey
N.Mex. New Mexico
noble. nobleman; noblewoman
Nor. Norway; Norwegian
nov. novel; novelist
N.S. Nova Scotia
N.S.W. New South Wales
N.T. New Testament
N.Terr. Northern Territory
numis. numismatics; numismatist
N.W.Terr. Northwest Territories
N.Y. New York State
N.Y.C. New York City
N.Z. New Zealand

O

O. Ocean
OAS Organization of American States
oceanog. oceanography; oceanographer; oceanographic
off. officer
offi. official
Okla. Oklahoma
Ont. Ontario
ophthal. ophthalmology; ophthalmologist
orat. oration; orator; oratorio
ord. order
Oreg. Oregon
organ. organization
orient. orientalist
ornith. ornithology; ornithologist
O.T. Old Testament

P

Pa. Pennsylvania
Pac.O. Pacific Ocean
paint. painting; painter
Pak. Pakistan; Pakistani
Pal. Palestine; Palestinian
paleog. paleography; paleographer
paleon. paleontology; paleontologist
pam. pamphlet
Pan. Panama; Panamanian
Para. Paraguay; Paraguayan
parl. parliament; parliamentary
path. pathology; pathologist
P.E.I. Prince Edward Island

penin. peninsula
penol. penology; penologist
period. periodical
Pers. Persia; Persian
Peruv. Peruvian
petrol. petrology
pharm. pharmacology; pharmacologist
Phila. Philadelphia
philan. philanthropy; philanthropist; philanthropic
philat. philately; philatelist
Philipp. Philippines; Philippine
philol. philology; philologist
philos. philosophy; philosopher; philosophic
Phoen. Phoenicia; Phoenician
phot. photography; photographer
phy. physician
phys. physics; physicist
physiog. physiography
physiol. physiology; physiologist
pion. pioneer
plat. plateau
Pol. Poland; Polish
pol. politics; politician; political
pol.sci. political science; political scientist
Port. Portugal; Portuguese
port. portrait
poss. possession
P.Q. Province of Quebec
P.R. Puerto Rico; Puerto Rican
pr. prince; princess
preft. prefecture
pres. president
Presb. Presbyterian
prim. primitive
print. printer; printing
prod. producer; production
prof. professor
prom. promontory
prot. protectorate
Prot. Protestant
prov. province
Prus. Prussia; Prussian
pseud. pseudonym
psych. psychology; psychologist
pt. point
pub. public
publ. publication; publisher; publishing
public. publicist

Q

q. queen
Que. Quebec (city)
Queens. Queensland

R

r. ruler or rulers; ruled
R.C. Roman Catholic
rd. road
ref. reformer
reg. region
rel. religion; religious
rep. republic
res. reservoir

ABBREVIATIONS USED IN THE INDEX

reserva. reservation
resid. residency
rev. revolution; revolutionary
rhet. rhetoric; rhetorician
Rhod. Rhodesia; Rhodesian
R.I. Rhode Island
riv. river
Rom. Roman
roy. royalty; royal
R.R. railroad
RSFSR Russian Soviet Socialist Republic
Russ. Russia; Russian
ry. railway

S

s. son
S. San; South; Southern
S.Afr. South Africa; South African
Sah. Sahara
Salv. Salvadoran
S.Amer. South America; South American
Sand.Isls. Sandwich Islands
Sard. Sardinia; Sardinian
Sask. Saskatchewan
Saudi Ar. Saudi Arabia
S.Austr. South Australia
Sax. Saxony; Saxon
S.C. South Carolina
Scand. Scandinavia; Scandinavian
schol. scholar
sci. science; scientist
Scot. Scotland; Scottish
Script. Scriptures
sculp. sculpture; sculptor
S.Dak. South Dakota
SEATO Southeast Asia Treaty Organization
sec. secretary
seismol. seismology; seismologist
sen. senator
Seneg. Senegal; Senegalese
Serb. Serbia; Serbian
ship. shipping
Sib. Siberia
Sic. Sicily; Sicilian
Slav. Slavonia; Slavic
Slov. Slovenia; Slovenian
soc. social; society
sociol. sociology; sociologist; sociological
sol. soldier
sov. sovereign
Sov. Soviet
Sp. Spain; Spanish
Spar. Spartan
sr. senior
SSR Soviet Socialist Republic

st. street
St. Saint
Sta. Santa
states. statesman
statist. statistician
ste. Sainte
str. strait
Sud. Sudan; Sudanese
Sum. Sumatra
surg. surgery; surgeon; surgical
surv. surveying; surveyor
Swaz. Swaziland
Swed. Sweden; Swedish
Switz. Switzerland
sym. symbol
symph. symphony
Syr. Syria; Syrian

T

Tanz. Tanzania; Tanzanian
Tas. Tasmania; Tasmanian
tech. technical; technology; technique
tel. telephone
teleg. telegraphy
Tenn. Tennessee
terr. territory; territorial
Teut. Teutonic
Tex. Texas
Thai. Thailand
theat. theater; theatrical
theol. theology; theologian
theos. theosophy; theosophist
thermodyn. thermodynamics
Tib. Tibet; Tibetan
Togo. Togolese
topog. topography; topographer
trag. tragedy
trans. translation; translator
Transyl. Transylvania
trav. travel; traveler
trig. trigonometry
Trin.-Tob. Trinidad and Tobago
Trip. Tripoli
trop. tropical
Tun. Tunisia; Tunisian
Turk. Turkey; Turkish
Turkest. Turkestan
TV television
typog. typography; typographer

U

u. uncle
UAE United Arab Emirates
UAR United Arab Republic
Ugan. Uganda; Ugandan
U.K. United Kingdom
Ukr. Ukraine; Ukrainian
U.N. United Nations
Unit. Unitarian
univ. university
Uru. Uruguay; Uruguayan
U.S. United States
USSR Union of Soviet Socialist Republics
U. Volta Upper Volta

V

v. versus
Va. Virginia
val. valley
veg. vegetable
Venez. Venezuela; Venezuelan
vet. veterinarian; veterinary
Vict. Victoria
Viet. Vietnam; Vietnamese
vil. village
Virg.Isls. Virgin Islands
volc. volcano; volcanic
Vt. Vermont

W

w. wife
W. West; Western
W.Afr. West Africa
Wash. Washington
W.Austr. Western Australia
W.Ger. West Germany
W.I. West Indies
Wis. Wisconsin
writ. writer
W.Va. West Virginia
Wyo. Wyoming

Y

Yem. Yemen; Yemenite
Yuc. Yucatan
Yugos. Yugoslavia; Yugoslav

Z

Zanz. Zanzibar
Zim. Zimbabwe; Zimbabwean
zoogeog. zoogeography
zool. zoology; zoologist

A

- A** (letter) 1-1
Illus. 1-623
A (term) 1-2
A (unit of meas.): see Ampere
A-4 (rocket): see V-2
A-11 (airplane) 2-873
A-17 (airplane) 20-458b
A & P: see Atlantic & Pacific Tea Co., The Great
A-pillar (auto.) 2-842g
4 rebours, nov. (Huysmans) 8-582
A-series (rockets) 23-612
AA (Eur. rivers) 1-2
Aa (geol.) 28-218
AAA: see Agricultural Adjustment Administration;
 American Automobile Association
AAAS: see American Association for the Advancement of Science
AACHEN (Aix-la-Chapelle), Ger. 1-2
 Art 2-386
 Baths 3-349
 chapel and palace 2-386; 5-94; 6-4
 Charlemagne 11-748
 Coronation 7-821
 history 12-652
 Illuminated Manuscripts 14-780
 World War II 29-409, 410
AACOBIS: see Australian Advisory Council on Bibliographical Services
AAGESEN, Svend (Dan. hist.) 1-3; 8-720
Aahmas I (Egy. k.): see Ahmose
Aahmes (Egy. scribe): see Ahmes
AAKJAER, Jeppe (Dan. au.) 1-3; 8-724
AALBORG (Alborg), Den. 1-3
Illus. 8-716
Aalesund, Nor.: see Alesund
Aalsmeer, Neth. 20-122
AALST, Belg. 1-3
AALTO, Alvar Henrik (Finn. arch.) 1-3; 19-307
 Finland 11-235
 Helsinki 14-78
Illus. 11-233; 19-307
Aanklong (Indon. mus.) 15-84
Aar River, Switz.: see Aare River
AARAU, Switz. 1-3
AARDVARK (zool.) 1-4; 27-366
AARDWOLF (zool.) 1-4; 5-689
AARE RIVER, Switz. 1-4
 Bern 3-603
 Map 26-147
AARGAU, canton, Switz. 1-4; 26-156
 Map 26-147
AARHUS (Arhus), Den. 1-4
Aarhus, University of, Den. 8-713
 library 8-714
Illus. 8-713
Aarne, Antti (Finn. folklorist) 11-4981
Aarne-Thompson number (folk-tale classification) 11-4981
AARON (Bib. char.) 1-4
 Essene 10-593
 Golden calf 13-28
 Moses 19-493
AARON, Henry Louis (Amer. athl.) 1-5; 3-299
Illus. 3-303
Aarschot, Belg.: see Aerschot
Aasen, Ivar Andreas (Nor. philol.) 20-466c
AASL: see American Association of School Librarians
AAU: see Amateur Athletic Union of the United States
AAUP: see American Association of University Professors
AAUW: see American Association of University Women
Ab (Jew. month): see Av
- Ab-i-Istada**, Lake, Afg. 1-247
ABA: see American Bankers Association
ABA: see American Basketball Association
Aba (garment) 9-391
ABABDA (Afr. people) 1-5
 Arabian Desert 2-164
 Sudan 25-839
Abaca (bot.): see Manila hemp
ABACO AND CAYS, dist., Bah. 1-5
Abacus (arch.) 5-594; 7-353
ABACUS (math.) 1-5; 2-294
Abad, Antonio (Philipp. writ.) 21-906
ABADAN, Iran 1-6; 15-371.
 375, 376, 399
 Petroleum 21-836
Abadilla, A. G. (Philipp. poet) 21-906
Abailard, Pierre (Fr. philos.): see Abelard, Peter
Abakan, USSR 16-415
Abakan Tatars (Turkic people) 27-278
ABAKO (Zaire pol. party): see Alliance des Bakongo
ABALONE (mollusk) 1-7
ABANDONMENT (law) 1-7; 15-238
 Desertion 9-12
 Divorce 9-210
ABARIS (Gr. legd. sage) 1-7
ABASCAL, José Fernando (Sp. sol.) 1-7
Abate, Nicolò dell' (It. paint.): see Abbate, Nicolò dell'
ABATEMENT (law) 1-7
ABAUZIT, Firmin (Fr. schol.) 1-8
Abax (Gr. furn.) 12-186
Abay, riv., Eth.: see Blue Nile
Abayah (Saudi Ar. garment) 24-302
Abaza (Caucasian people) 16-318
ABBA MARI (Fr. rabbi) 1-8
ABBADID (Arab dyn.) 1-8
Abbai, riv., Eth.: see Blue Nile
ABBAS (uncle of Mohammed) 1-8
ABBAS I (Egy. pasha) 1-8; 10-15
ABBAS II (Egy. khedive) 1-8
 World War I 29-297
ABBAS I (Pers. shah) 1-9; 15-382; 24-605, 862
 Georgian SSR 12-537
 Isfahan 15-488
 Middle East 19-78
 Persian Art and Architecture 21-750
 Throne 26-707
 Turkey 27-264
Illus.: Isfahan's Royal Pavilion 15-507
Abbas, Abu'l- (Abbasid caliph): see Abu'l-Abbas al-Saffah
Abbas, Ferhat (Alg. pol.) 1-569, 571
Abbas Effendi (Iranian rel. leader): see Abdul-Baha
Abbas Mahmud al-Agga (Arab writ.): see Aggad, Abbas Mahmud al-
Abbas the Great (Pers. shah): see Abbas I
ABBASID (Arab dyn.) 1-9; 2-146, 149, 156; 19-77, 78
 Abu'l-Abbas al-Saffah 1-58
 Arabia 2-162
 Asia 2-495
 Baghdad 3-50
 Barmecid 3-245
 Caliphate 5-218
 Carmathian 5-674
 Crusades 8-265
 Egypt 10-12
 Eighth Century 10-88
 Fatimids 11-57
 Harun al-Rashid 13-833
 Hashemites 13-843
- Iran** 15-380
Iraq 15-396
Islam 15-498
 Jerusalem 16-31
 Mamluks 18-188
 Mamun, al- 18-211
 Mansur, al- 18-265
 Mesopotamia 18-740
 Mongolia 19-362
 Ninth Century 20-373
 Persian Art and Architecture 21-743
 Pottery 22-487
 Tenth Century 26-505
ABBATE, Nicolò dell' (It. paint.) 1-10
 Fontainebleau 11-507, 809
Abbatini, Antonio Maria (It. comp.) 20-763
Abbaye-aux-Dames, church, Caen, Fr.: see Trinité, La
Abbaye-aux-Hommes, church, Caen, Fr.: see Saint-Etienne
ABBE, Cleveland (Amer. meteorol.) 1-10
ABBE, Ernst (Ger. phys.) 1-11
 Anatomy 1-781
 Lens 17-213
 Zeiss, C. 29-759
ABBE, Robert (Amer. surg.) 1-11
ABBE (rel. title) 1-11
Abbe condenser (optics) 19-52
ABBESS (rel. title) 1-11
ABBEVILLE, Fr. 1-11
ABBEVILLE, La. 1-11
ABBEVILLE, S.C. 1-11
ABBEVILLIAN (Chellean) (archaeol.) 1-11; 2-207
 Acheulian 1-103
 Stone Age 25-745, 748
ABBEY, Edwin Austin (Amer. art.) 1-12
ABBEY, Henry Eugene (Amer. operatic mgr.) 1-12; 18-799, 800
ABBEY (rel.) 1-12
Abbey nullius (R.C. community) 6-45
ABBEY THEATRE, Dublin, Ire. 1-13; 15-422
 Fay, W. G. and F. J. 11-60
 Gregory, Lady A. 13-475
 Little Theater 17-601
 O'Casey, S. 20-605
 Repertory Theater 23-409
 Robinson, L. 23-580
 Yeats, W. B. 29-659
ABBOT, Benjamin (Amer. educ.) 1-13
 house 1-819
ABBOT, Charles Greeley (Amer. astrophys.) 1-13; 25-68
ABBOT, George (Eng. archbp.) 1-14; 13-311
ABBOT (rel. title) 1-14
 Abbey 1-12
 Benedictines 3-542
 Celtic Church 6-143
 Ring 23-531
Abbot Academy, Mass. 1-819
Abbot of Unreason (title) 19-226
ABBOTSFORD HOUSE, Roxburghshire, Scot. 1-14; 24-431
Illus. 24-425
Abbott, Austin (Amer. law.) 1-14
ABBOTT, Benjamin Vaughan (Amer. law.) 1-14
ABBOTT, Douglas Charles (Can. pol.) 1-14
ABBOTT, George Francis (Amer. theat. prod.) 1-15
ABBOTT, Grace (Amer. sociol.) 1-15
ABBOTT, Jacob (Amer. au.) 1-15
ABBOTT, Sir John Joseph Caldwell (Can. states.) 1-15
ABBOTT, Lyman (Amer. cler.) 1-15
- ABBOTT, Wilbur Cortez** (Amer. educ.) 1-15
Abbott and Costello (Amer. comedians) 19-527
ABBREVIATIONS 1-16
 Acronym 1-120
 Paleography 21-296
 Shorthand 24-758
 See also Symbol
Abbud (Abboud), Ibrahim (Sud. gen.) 25-842
ABC: see American Broadcasting Company
ABC art: see Minimal Art
ABC islands, Neth. Ant. 20-128e, 128f
ABC-1 (Brit.-U.S. conversations, 1941) 29-395
ABC POWERS (Arg., Braz., Chile) 1-25
ABD (Arab term) 1-25
ABD AL-AZIZ IV (Mor. sultan) 1-25; 19-471
Abd al-Aziz al-Mansur (Muslim r.) 27-858
Abd al-Hafiz (Mor. r.) 1-25; 19-469
Abd al-Karim (Arab leader): see Abd el-Krim
Abd Allahi (Sud. rel. leader): see Khalifa, The
Abd Allah Ibn Yasin (Mus. leader): see Ibn Yasin, Abd Allah
ABD AL-MALIK (Umayyad caliph) 1-25; 2-146
 Abdallah Ibn Zubair 1-26
 Umayyad 27-353c
ABD AL-MUMIN (Arab leader) 1-25; 19-468
 Almohad 1-614
Abd al-Muttalib (grandfather of Mohammed) 19-315
Abd al-Quadir al-Jilani (Islamic leader): see Jilani, al-
ABD AL-RAHMAN (Arab-Islamic name) 1-25
 See also Abd ar-Rahman; Abdur Rahman Khan
Abd al-Rahman (Sud. rel. leader) 18-118
ABD AR-RAHMAN (Mus. emir of Andalusia) 1-26
ABD AR-RAHMAN I (Mus. emir of Córdoba) 1-25
 Abbasid 1-9
 Spain 25-410
ABD AR-RAHMAN III (Mus. caliph of Córdoba) 1-26; 2-149; 7-788
 Spain 25-410
ABD EL-KADER (Arab leader) 1-26
 Algeria 1-568
 France 11-778
Abd el-Krim (Abd al-Karim) (Arab leader) 19-469
 Spain 25-420
Abdali (Pathan tribe) 10-500
ABDALLAH (f. of Mohammed) 1-26; 19-19
Abdallah (Timurid r.) 26-767
Abdallah, Ahmed (Comoros pres.) 7-454
ABDALLAH IBN ZUBAIR (Mus. caliph) 1-26
ABDALLATIF (Iraqi phy.) 1-27
ABDALWADID (Mus. dyn.) 1-27
ABDERA, anc. city, Gr. 1-27
ABDERATION (law) 1-27
Abdimikuti (Assy. k.) 21-951
ABDOMEN (anat.) 1-27; 14-547b
 Colon 7-232
 Hernia 14-143
 Insect 15-197, 199
 Intestine 15-323
 Kidneys 16-429
 Peritoneum 21-712
 Peritonitis 21-712
 Stomach 25-739
 Stomachache 25-741

Abdominal thrust (first aid): see Heimlich maneuver
Abducens nerve (anat.) 20–109
ABDUCTION (law) 1–28
 See also Kidnapping
ABDUCTION FROM THE SERA-GLIO (*Entführung aus dem Serail*), opera (Mozart) 1–28; 20–766
ABDUL AZIZ (Turk. sultan) 1–29
ABDUL-BAHA (Iranian rel. leader) 1–29
 Babism 3–7
 Bahai Faith 3–54
 Baháulláh 3–57
Abdul Gaffar Khan (Mus. leader) 14–955
ABDUL-HAMID I (Turk. sultan) 1–29
ABDUL-HAMID II (Turk. sultan) 1–29; 27–267, 268
 Armenia 2–333
 Istanbul, University of 15–550
 Pan-Islamism 21–360
ABDUL-JABBAR, Kareem (Amer. athl.) 1–30
Abdul Kerim Pasha (Turk. sol.) 29–294, 300
Abdul-Malik II (Samanid r.) 24–175
ABDUL MEJID I (Turk. sultan) 1–30
Abdul-Mejid II (Turk. caliph) 27–270
Abdul Rahman, Sheikh Moham-med (Zanz. pol.) 29–749
ABDUL RAHMAN, Tunku (Malay. states.) 1–30; 18–165, 166
Abdul Wahhab (Arab. rel. leader) 20–85
Abdullah, Amir (Iraqi regent) 15–397
Abdullah: see Abdallah, except for those below
ABDULLAH, Sheikh Mohammed (Kashmiri pol.) 1–31; 16–330
ABDULLAH IBN HUSEIN (k. of Jor.) 1–31; 16–170, 173
 World War I 29–300
ABDUR RAHMAN KHAN (Afg. amir) 1–31
 Afghanistan 1–254
 India 14–952
Abé (Afr. people) 15–628
ABE LINCOLN IN ILLINOIS, play (Sherwood) 1–31
Abéché, Chad 28–252
A BECKETT (Eng. lit. fam.) 1–31
A Beckett, Arthur William (Eng. writ.) 1–31
A Beckett, Gilbert Abbott (Eng. au.) 1–31
A Beckett, Gilbert Arthur (Eng. dram.) 1–31
A Becket, Saint Thomas (Eng. eccl.): see Becket, Saint Thomas
Abednego (Bib. char.) 8–482
Song of the Three Young Men 25–222
ABEL (Bib. char.) 1–32; 5–143
 Adam and Eve 1–134
Abel, Sir Frederick Augustus (Eng. chem.) 7–787
ABEL, John Jacob (Amer. phy.. chem.) 1–32
 Pharmacology 21–850
ABEL, Karl Friedrich (Ger. mus.) 1–32
ABEL, Niels Henrik (Nor. math.) 1–32
 Binomial Theorem 3–757
 Equation 10–529
Abel, Rudolf I. (Soviet spy) 10–585
Abel Sánchez, nov. (Unamuno) 20–508
ABELARD, Peter (Fr. philos.) 1–33; 21–934
 Atonement 2–652
 Autobiography 2–803
 Champaux, W. 6–264
 Latin 16–798
 Scholasticism 24–368
 Universals 27–776
Abele (tree): see White poplar
Abelian groups (math.) 13–515, 516
ABELL, Kjeld (Dan. dram.) 1–34; 8–725
Abelson, Philip Hauge (Amer. phys.) 27–28
Abenaki (Amerind): see Abnaki Indians

Abenteuerliche Simplicissimus, Der, nov. (Grimmelshausen): see *Simplicissimus*
Abeokuta, city-state, Afr. 20–338, 339
Aber Tawe, Wales: see Swansea
Aberconway, Wales: see Conway
ABERCROMBIE, Lascelles (Eng. poet, crit.) 1–34
Abercrombie, Michael (Eng. biol.) 8–391
ABERCROMBIE, Sir Patrick (Brit. town planner) 1–34
Abercrombie, Robert (Brit. sol.) 29–689
ABERCROMBY, James (Brit. sol.) 1–34; 5–467
ABERCROMBY, Sir Ralph (Brit. sol.) 1–34
Aberdare National Park, Kenya 19–774
Aberdare Range, mts., Kenya 16–394
ABERDEEN, 4th Earl of (George Hamilton Gordon) (Brit. states.) 1–35
 Crimean War 8–205
 Victoria 28–87
ABERDEEN, Md. 1–35
ABERDEEN, Miss. 1–35
ABERDEEN, co., Scot. 1–35
 Balmoral Castle 3–122
ABERDEEN, Scot. 1–36
ABERDEEN, S.Dak. 1–37
ABERDEEN, Wash. 1–37
ABERDEEN, University of, Scot. 1–37; 9–687
ABERDEEN AND TEMAIR, 1st Marquess of (John Campbell Gordon) (Brit. states.) 1–37
Aberdeen and Temair, Marchioness of (Brit. sociol.) 1–37
Aberdeen-Angus cattle 6–68
Illus. 2–725; 6–66, 74; 26–479
ABERDEEN PROVING GROUND, Md. 1–37
 Ballistics 3–111
Map 18–408
Aberdeen Terrier (dog): see Scottish Terrier
Aberfan, Wales 9–163
Abergeldie Castle, Scot. 3–122
ABERHART, William (Can. pol.) 1–37; 5–500
 Social Credit Party 25–127
Aberli, Johann Ludwig (Swiss art.) 28–436
Abernathy, Ralph D. (Amer. civil rights leader) 6–779
 Southern Christian Leadership Conference 25–342
ABERRATION, Optical 1–38
 Achromatic Lens 1–105
 Eyeglasses 10–818
 Lens 17–215
 Microscope 19–51
 Telescope 26–414
 See also Chromatic aberrations
ABERRATION OF LIGHT (astron.) 1–38; 2–571, 584; 17–452
 Bradley, J. 4–403
Abertawe, Wales: see Swansea
ABERYSTWYTH, Wales 1–39
 Cardiganshire 5–634
Abha, Saudi Ar. 2–512
Abhidharma (Buddhist canon) 4–693
Abhijnānaśakuntala, drama (Kālidāsa): see *Sakuntalā*
ABHORRERS (Eng. hist.) 1–39
 Tory 26–870
Abia (Abiam) (Bib.): see Abijah
Abib (Jew. month): see Aviv
ABIDJAN, Iv.Cst. 1–39, 306; 15–630
Illus. 15–628; cathedral 1–269; Housing 14–491; market 15–629; newstands 1–294; port 15–631
Abidjan, University of, Iv.Cst. 15–629
Abies (bot.): see Fir
ABIE'S IRISH ROSE, play (Nichols) 1–39
Abietic acid (chem.) 25–117
Abigail (sister of King David) 1–39
ABIGAIL (w. of King David) 1–39
ABIJAH (Bib.) 1–39
ABILA (one of Pillars of Hercules) 1–39
 Ceuta 6–207
ABILENE, Kans. 1–39
 Chisholm Trail 6–608

McCoy, J. G. 18–563
Illus. 16–302, 304
ABILENE, Tex. 1–40
ABILENE CHRISTIAN COLLEGE, Tex. 1–40
ABILITY (psych.) 1–40
 Child Development 6–454 fol.
 Education 9–709, 717
 Intelligence 15–241
 tests 9–721, 722
Ability-to-pay principle (taxation) 26–318
 Collective Bargaining 7–236
 Public Finance 22–756
ABIMELECH (Bib.) 1–40
ABINGTON, Mass. 1–40
ABINGTON, Pa. 1–40
Abiogenesis: see Spontaneous Generation
ABITIBI, Lake, Ont., Can. 1–40
Map 5–319
Abitibi region, P.Q., Can. 23–64
Abitibi River, Can. 1–40
Map 20–748
Abitur (Ger. educ.) 12–628
ABJURATION (law) 1–41
Abjuration, Act of (Neth. 1581) 25–553
Abkhaz (Eur. people) 1–41
 Caucasus 6–87
Abkhaz-Adigeh group of languages 6–84
ABKHAZ AUTONOMOUS SOVIET SOCIALIST REPUBLIC 1–41
 Georgian SSR 12–553
Maps 27–410, 412
ABLATIVE (gram.) 1–41; 5–756
 Greek 13–437
 Latin 16–789, 790
Ablative absolute (gram.) 1–41
ABLAUT (ling.) 1–41; 10–647, 648
ABLEGATE (papal envoy) 1–41
Ableman v. Booth (U.S. case) 26–256
Ablesimov, Aleksander O. (Russ. au.) 24–30c
ABLUTION (ceremony) 1–41; 23–20
Ablution (hydrotherapy) 14–667
ABM system (mil.): see Antiballistic missile systems
ABNAKI INDIANS 1–42, 574
 Maine 18–141
 Passamaquoddy Indians 21–509
 Pennacook Indians 21–637
 Penobscot Indians 21–668
ABNER (Bib.) 1–42
 David 8–526
 Joab 16–95
ABNEY, Sir William de Wiveleslie (Eng. phys.) 1–42
Abo, Fin.: see Turku
ABO system (med.) 4–94
Abohm (elec. unit) 20–673
Abolition Grove, park, Abington, Mass. 1–40
ABOLITIONISTS 1–42; 4–28c; 27–731
 Andrew, J. A. 1–825
 Ashley, J. M. 2–437
 Bailey, G. 3–61
 Beecher, H. W. 3–450
 Benezet, A. 3–546
 Birney, J. G. 4–3
 Brown, J. 4–628
 Civil War 6–784
 Coles, E. 7–229
 Dana, R. H., Jr. 8–463
 Douglass, F. 9–313
 Fee, John G. 11–82
 Foster, Abigail K. 11–642
 Foster, Stephen S. 11–643
 Free Soil Party 12–45
 Fugitive Slave Laws 12–150
 Gag Rules 12–223
 Garnet, H. H. 12–310
 Garrett, T. 12–313
 Garrison, W. L. 12–314
 Gibbons, A. H. 12–731
 Gibbons, J. S. 12–732
 Giddings, J. R. 12–737
 Goodell, W. 13–77
 Green, B. 13–444
 Grimké sisters 13–495
 Grinnell, J. B. 13–499
 Julian, G. W. 16–214
Liberator, The 17–297
 Liberty Party 17–305
 Loring, E. G. 17–746
 Lovejoy, E. P. 17–809
 Lundy, B. 17–852
 Massachusetts 18–472
 Mott, L. 19–563
 New England Emigrant Aid Company 20–166

Phillips, W. 21–922
 Protestantism 22–691
 Quakers 12–93
 Sanborn, F. B. 24–216
 Sharp, G. 24–673
 Smith, G. 25–57
 Stanton, H. B. 25–593
 Sumner, C. 26–8
 Tappan, A. 26–290
 Tappan, L. 26–290
 Torrey, C. T. 26–864
 Tubman, H. 27–203
 Underground Railroad 27–359
 Whittier, J. G. 28–738
 Woolman, J. 29–164
Abomasum (anat.) 6–79
Abomey, Benin 3–550a, 550c
ABOMINABLE SNOWMAN (monster) 1–43
ABORIGINES (anthro.) 1–43
Aetias 21–897
 Ainu 1–368
 Australian: see Australia—Population (Aborigines)
 Bushman 5–41
 Jomo of Japan 15–814
Illus. 2–710, 711
ABORTION (med., law) 1–44
 Birth Control 4–4, 5
 chromosome abnormalities 12–410
 Civil Rights and Liberties 6–774
 Eugenics 10–657
 Great Britain 13–225
 Legal Medicine 17–167
 Mental Retardation 18–706
 miscarriage 22–541
 Population Control 22–411
 Privacy 22–626
 Puerperal Fever 22–776
 Radiation Injury 23–145, 194
 Roe v. Wade and Doe v. Bolton 23–632
 Rubella 23–835
 Supreme Court 26–48
 Turkey 27–250d
 USSR 27–395
 Women's Rights Movement 29–110, 111
Abortion, Infectious (vet. med.): see Brucellosis
Aboukir, Egy.: see Abukir
Abovian, Khachatur (Arm. nov.) 2–336
ABRACADABRA (magic) 1–45
ABRAHAM (Bib. patriarch) 1–46; 3–682; 12–391, 392; 18–601
 Arabia 2–159
 Isaac 15–481
 Ishmael 15–489
 Lot 17–758
 Melchizedek 18–667
Abraham, Karl (Aus. psych.) 12–86
Abraham, Plains of: see Plains of Abraham
Abraham, Testament of 2–97
Abraham a Sancta Clara (Aus. cleric) 2–800
Abraham ben David (Jew. schol.) 5–108
ABRAHAM IBN DAUD HA-LEVI (Jew. hist., philos.) 1–47
Abraham Lincoln, play (Drinkwater) 9–308
Abraham Lincoln: A History, bk. (Hay and Nicolay) 13–889
Abraham Lincoln Birthplace National Historic Site, Ky. 16–388; 19–778
Illus. 16–391
Map 16–380
Abraham of Antioch (Syr. theol.) 1–47
ABRAHAMITES (rel. sects) 1–47
Abrahams, Charles (Austr. sculpt.) 2–754
Abrahams, Peter (S.Afr. au.) 1–275
Abrahams, Roger (Amer. folklorist) 11–498t, 499
Abram (Bib. patriarch): see Abraham
Abramov, Fyodor (Russ. writ.) 24–30m
Abrams, Creighton W. (Amer. gen.) 28–112f
Abrams v. United States (U.S. case) 6–162
 Holmes, O. W., Jr. 14–300
Abantes, Duc d' (Fr. gen.): see Junot, Andoche
Abrasion (med.): see First Aid 11–268
ABRASIVES 1–47

- Alumina 1-641
 Carborundum 5-630
 Corundum 8-30
 Drill 9-397
 Emery 10-306
 Garnet 12-311
 Grinding 13-497, 498
 Industrial diamond 9-59
 Metal Finishing 18-762
 Metalworking 18-769, 35 fol.
 Polishing 22-335
 Pumice 22-798
 Sandpaper 24-224
- ABRAXAS** (rel. term) 1-49
Abreaction (psych.) 14-681
ABREU, Casimiro de (Braz. poet) 1-49
ABREU, João Capistrano de (Braz. hist.) 1-49
Abrittus, Battle of (251 A.D.) 23-732
ABROGATION (law) 1-49
Abron (Afr. people) 15-628
ABRUZZI, Duke of the (lit. nav. off., expl.) 1-50; 2-246
ABRUZZI, reg., lt. 1-50; 2-91
 economy 15-562, 563
 Map 15-ITALY
Abruzzo, Ben (Amer. balloonist) 3-116
ABS plastics: see Acrylonitrile-butadiene-styrene plastics
ABSALOM (Bib.) 1-50
 David 8-527
 Joab 16-95
ABSALOM, ABSALOM! (nov. (Faulkner)) 1-50; 11-53
ABSALOM AND ARCHITOPHEL, poem (Dryden) 1-50; 9-430, 432; 10-440
 Tate, N. 26-311
ABSALON (Dan. bp.) 1-51; 8-716, 720
 Canute VI 5-539
 Valdemar I 27-857
Absaroka Range, mts., Mont.-Wyo. 23-619; 29-577, 666
Illus. 19-393; 23-618
Maps 19-398; 29-WYOMING
ABSCISS (med.) 1-51
 Boil 4-147
 Carbuncle 5-630
 Fistula 11-336
 Gum 13-602
 Pneumonia 22-269
 Quinsy 23-102
Abscissic acid (biochem.) 22-207
Abscisin (biochem.) 22-59
Abscissa (geom.) 12-475, 483
Illus. 12-475
Abscission (bot.) 17-108
ABSD (advanced base sectional docks) 29-503
ABSENTEE OWNERSHIP 1-52
 Italy 15-568
Absentee Shawnee Indians 24-678
ABSENTEE VOTING 1-52; 10-120
 Ballot 3-118
ABSL, Jean (Belg. mus.) 1-52; 3-497
ABSINTHE (liquor) 1-52
 Wormwood 29-535
Absinthe Drinker, The, paint. (Manet) 18-228
ABSOLUTE, Sir Anthony (lit. char.) 1-52
ABSOLUTE (philos.) 1-53
 Bosanquet, B. 4-292
 See also Ultimate
Absolute CGS-emu system (meas.) 18-592
Absolute dating (sci.): see Chronometric dating
Absolute idealism (philos.) 14-741
 Pantheism 21-363
 Royce, J. 23-822
 Russell, B. A. W. 23-874
Absolute magnitude (astron.) 2-579; 18-109; 25-597, 599, 600
Illus. 25-600
Absolute monarchy (govt.) 19-342
 King 16-453
ABSOLUTE MUSIC 1-54; 19-657
Absolute pitch (mus.) 13-918; 22-145
Absolute pragmatism (philos.) 23-822
Absolute scale (phys.): see Kelvin scale; Rankine scale
ABSOLUTE ZERO 1-54
 comparison of scales 14-15
 Cryogenics 8-274
- Heat 14-17
 Temperature 26-454, 455
 Thermodynamics 26-651, 652
 Zero 29-770
 Zero-Point Energy 29-771
- ABSOLUTION** (eccl.) 1-54; 21-621
 Confession 7-534
 Indulgence 15-102
ABSOLUTISM (pol. sci.) 1-54
 Augustus 2-690
 Autocracy 2-804
 Bodin, J. 4-130
 Dictatorship 9-82
 Divine Right of Kings 9-200
 First Century 11-179
 Norway 20-476
 Prince, The 22-592
 Russia 24-5, 15, 35
 First Century 11-179
 Tyranny 27-330
Absorbed dose (radiation) 23-142
Absorbent 23-331, 332
Absorbent papers 21-382
ABSORPTION (chem., phys.) 1-55
 Astrophysics 2-590
 Atmosphere 2-629
 Dye 9-508, 509
 Electromagnetic Radiation 10-158, 159
 Laser 16-773
 Light 17-441
 Magnetic Resonance 18-105
 Maser 18-422
 neutron radiation 23-140
 Polarized Light 22-323
 Refrigeration 23-330, 331, 334
 Ultraviolet Radiation 27-353c
 X-Rays 29-605, 610, 621
Absorption (physiol.) 9-115
 Drug 9-408, 409
 Metabolism 18-749
Absorption lines (phys.) 2-576, 582, 584
 Quasar 23-61
Absorption spectroscopy 6-366; 25-468, 472
Abstinence (rel.) 11-42, 43
Abstinence, Sexual:
 Birth Control 4-4
 Celibacy 6-130
Abstract algebra (math.) 18-489
ABSTRACT ART 1-55; 19-301, 305
 Abstract Expressionism 1-56
 Austria 2-799
 Cubism 8-307
 Folk Art 11-491
 Indian, American 15-21
 Landscape 16-707
 Mobile 19-284
 Op Art 20-757
 Orphism 21-87
 Painting 21-255
 Sculpture 24-458 fol.
 suprematism 18-170
 USSR 27-430c
 United States 27-587
 Water-Color Painting 28-437
ABSTRACT EXPRESSIONISM (art) 1-56; 19-305
 Cubism 8-308
 De Kooning, W. 8-646
 Gorky, A. 13-92
 Israel 15-526
 Johns, J. 16-123
 Kline, F. 16-500
 Motherwell, R. B. 19-502
 Painting 21-258
 Pollock, J. 22-358
 Romanticism 23-678
 Rothko, M. 23-804
 United States 27-591; 2-389
Abstract impressionism (art) 27-591
ABSTRACT OF TITLE (law) 1-57
Abstract spaces, Theory of (geom.) 12-479
Abstract typefaces 4-236
ABSTRACTION (philos.) 1-57
 Bergson, H. 3-581
 Concept 7-500
 Concrete 7-516
 Hegel, G. W. F. 14-50
 Mathematics 18-494
 Nominalism 20-404
 Symbol 26-166
Abstracts (bibliog.) 3-723
ABSURD (philos.) 1-57
 Paradox 21-399
 See also Theater of the Absurd
Absyrtus (myth) 2-279
Abt Vogler (Ger. mus.): see Vogler, Georg Joseph
- Abt Vogler**, poem (Browning) 28-212
Abu Abdallah Mohammed (Mus. sultan): see Boabdil
Abu al-Hasan Ali Ibn Husayn al-Masudi (Arab hist., geog.): see Masudi, al-
Abu Ali al-Husayn Ibn Abdallah Ibn Sina (Arab philos.): see Avicenna
ABU BAKR (Islamic caliph) 1-58; 2-145; 21-305
 Asia 2-495
 Caliphate 5-218
 Hegira 14-52
 Mohammed 19-315
 Umar I 27-353c
Abu Bakr (Mus. phys., philos.): see Ibn Tulayl
ABU DHABI, emirate, UAE 1-58; 2-159, 161; 27-435
 Petroleum 21-832, 837
Abu Habba, Iraq: see Sippar
Abu-Hanifa (Mus. theol.) 15-500
 Anan ben David 1-776
 Karaite 16-308
Abu Lahab (Mohammed's uncle) 15-493
Abu Mashar Jaafar Ibn Muhammad (Arab. astron.): see Al-bumazar
Abu Muslim al-Khurasani (Pers. gen.) 1-9; 2-146; 10-88; 18-265
Abū Nuwās (Arab poet) 2-154
Abu Said (Timurid r.) 26-767
ABU SIMBEL, Egy. 1-58; 23-247
 Temple 26-460, 463; 10-28, 56, 64
Illus. 10-29, 64
Abu Sulayman al-Sijistani (Arab philos.) 2-157
Abu Talib (uncle of Mohammed) 15-492; 19-315
Abu-Tammam (Arab poet) 2-154
 Hamasa 13-733
Abu Yusuf Yaqub al-Kindi (Arab. philos., sci.): see Kindi, Abu Yusuf Yaqub al-
Abubacer (Mus. phys., philos.): see Ibn Tulayl
Abuja, Nig. 20-341
ABUKIR, Egy. 1-58
 Canopus 5-567
 Napoleon I 19-730
 Nelson, H. 20-86
ABU'L-ABBAS AL-SAFFAH (Abbasid caliph) 1-58, 9; 2-146; 10-88
Abu'l-Faraj (Pers. au.): see Isfahani, al-
Abu'l-Faraj Ibn al-Ibri (Svr. schol.): see Bar-Hebraeus, Gregorius
Abul Kasim al-Zahrawi (Arab phys.) 8-733
Abu'l-Khair (Uzbek r.) 27-849
Abundance (econ.) 9-596
 Twentieth Century 27-297
 United States 27-481, 541
Abure (Afr. people) 15-628
Abusir, Egy. 10-23; 23-35, 38
Abutilon (bot.): see Flowering Maple
ABYDOS, Asia M. 1-65
ABYDOS, anc. city, Egy. 1-65; 10-21, 27, 44; 23-35
 Osiris 21-106
 temple 10-56
 Map 10-EGYPT
Abyla (one of Pillars of Hercules): see Abila
ABYSSAL ANIMALS (biol.) 1-65
Abyssal deposits (Pelagic deposits) (geol.) 8-615, 622
 Continental Shelf 7-695
 Oceanography 20-619
 Ooze 20-757
Abyssinia: see Ethiopia
Abyssinian cats 5-803; 21-795
Illus. 5-Cat: 5-801, 805
Abyssinian Church: see Ethiopia, Orthodox Church of
Abyssinian wild ass 2-520
A.C.: see Alternating current
Ac (chem.): see Actinium
ACACIA (bot.) 1-65; 2-718
 betel nut habit 21-320
 Gum Arabic 13-602
 Tropical Agriculture 27-142
Acacian Schism (church hist.) 11-87
 Gelasius I, St. 12-364
Acacius (patriarch of Constantinople) 11-87
 Hormisdas, St. 14-379
Academia Sinica, China 6-560
- Academic American Encyclopedia** 10-333
ACADEMIC ART 1-66; 19-295
 Besnard, P. A. 3-623
 Painting 21-248
Academic costume: see Costume, Academic
Academic degrees: see Degree (educ.)
Academic Festival Overture, comp. (Brahms) 4-416
ACADEMIC FREEDOM 1-66
 Colleges 7-254e
 higher education 9-692
 United States 27-549
Academic Philosophy Circle, Zurich, Switz. 2-856
Académie de France à Rome (Academy of France at Rome) 15-226; 22-629
Académie des beaux-arts (Fr.) 15-226
 Academic Art 1-66
 American artists 27-579
Académie des inscriptions et belles-lettres (Fr.) 15-226
Académie des jeux floraux (Fr.) 1-69
Académie des Sciences (Fr.) 15-226
Académie des Sciences Morales et Politiques (Fr.) 15-226
Académie Française (French Academy) 15-225, 226
 Dictionary 9-88
 French literature 11-821
Académie Goncourt (Fr.) 13-67, 68
Académie Royale de Dance, Fr. 8-467, 472, 477
Académie Royale de Musique, Paris, Fr. 21-452, 453
Académie Royale des Sciences (Fr.): see Académie des Sciences
ACADEMY (learned societies) 1-69; 24-387
 Africa 1-302
 Italy 15-606
 United States 27-545; 9-679
 See also individual names and entries beginning with Academy—; Akademie—; Accademia—; Akademie
Academy, philos. school, Athens, Gr. 1-69; 13-399, 401 fol., 421
 Aristotle 2-288
 Carneades 5-679
 Hellenistic Age 14-73
 Plato 22-226, 230
 Xenocrates 29-592
Academy, French: see Académie Française
ACADEMY AWARD (motion pictures) 1-71a
Academy in Rome, American: see American Academy in Rome
Academy of Arts, The Royal, London, Eng.: see Royal Academy of Arts
Academy of Arts and Sciences, American: see American Academy of Arts and Sciences
Academy of France at Rome: see Académie de France à Rome
Academy of Medical Sciences, USSR 27-419
Academy of Motion Picture Arts and Sciences 1-71a
Academy of Music, Philadelphia, Pa. 21-866
Academy of Natural Sciences of Philadelphia 1-70; 21-866
Academy of Political and Social Science, American: see American Academy of Political and Social Science
Academy of Science (Austr.): *Illus.* 5-527
Academy of Science (Pol.) 22-311
Academy of Science of Saint Louis, Mo. 1-70
Academy of Sciences (China) 17-326
Academy of Sciences (Cuba) 8-301
Academy of Sciences (Fr.): see Académie des Sciences
Academy of Sciences (Ger.) 3-596
Academy of Sciences (USSR) 1-70; 24-13; 27-419, 420

Academy of Sciences, National, Washington, D.C.: see National Academy of Sciences
Academy of Sciences, New York: see New York Academy of Sciences
Academy of Television Arts and Sciences: see National Academy of Television Arts and Sciences
Academy of the Socialist Republic of Romania 23-664
ACADIA, former Fr. terr., N.Amer. 1-72; 20-159, 499
 exploration 5-459
 geography 5-340
 history 5-458, 462, 463, 466, 467
 La Tour, C. de S.-E. de 17-52
 people 5-466, 470
 Protestant Church 5-416
 See also Nova Scotia
ACADIA NATIONAL PARK, Me. 1-73
 Bar Harbor 3-214
 Mount Desert Island 19-566
 Map 18-134
Acadian Forest, Can. 5-340
Acadian orogeny (geol.) 12-461
Acadian refugees 1-73; 20-501
 Cajuns 5-149
 Lafayette, La. 16-661
 Louisiana 17-788
Acadiana, area, La. 16-661
Acadie, former Fr. terr., N.Amer.: see Acadia
Acajutla, El Salv. 10-261
Acala (cotton) 8-74
Alcalulia (med.) 2-92
Acamapichtli (Aztec k.) 2-894
ACANTHOPOPELACA (zool.) 1-73, 866
 Embryology 10-285
 Nematelminthes 20-90
Illus. 1-867
Acanthodii (fish) 11-290, 306
ACANTHUS (bot.) 1-73
A CAPELLA (mus.) 1-74
ACAPULCO, Mex. 1-74; 18-841
Illus. 18-821
ACARINA (zool.) 1-74
ACARNANIA, reg., Gr. 1-74; 13-365
Accad (northern Babylonia): see Akkad
Accademia dei Lincei (It.): see Lincei, Accademia dei
Accademia della Crusca (It. acad.) 1-69; 15-612
 Dictionary 9-88
Accademia Museum, Florence, It. 11-419
Accademia Platonica (It. acad.) 1-69
Accademia Pontaniana (It. acad.) 1-69; 15-606
Accadian (lang.): see Akkadian
Acceleration (educ.) 9-695
ACCELERATION (phys.) 1-75; 22-51, 52
 Accelerometer 1-75
 astronauts 25-365
 Automobile 2-841, 842f
 Centrifuge 6-190
 Force 11-558 fol.
 Galileo 12-242
 Gravitation 13-208
 Hydrodynamics 14-644
 Inertia 15-136
 Measures and Measuring Systems 18-590
 Mechanics 18-604, 605
 meter per meter per second 18-586
 Motion 19-502 fol.
 Space Exploration 25-355
 X-Rays 29-601
 See also Velocity
Accelerator (auto.) 2-835, 842g
Accelerator (sci. device): see Particle Accelerator
Accelerator pump (auto.) 2-835
Accelerograph (instru.) 1-75
ACCELEROMETER 1-75
 Airplane 1-426
 Automatic Pilot 2-806
 Guidance Systems 13-566
ACCENT 1-76; 17-528
 Diacritical Marks 9-53
 English Language 10-418, 420
Accent (period.) 17-599
Accentors (birds): see Hedge Sparrow
Acceptance (fin.) 3-202, 170, 171
Acceptance houses (fin.) 3-193

ACCESSION (internat. law) 1-76
Accessional teeth (dent.) 26-380
ACCESSORY (law) 1-76; 17-74
Accessory cells (bot.) 22-182
Accessory drive (aero.) 1-426
Accessory fruit (bot.) 12-139
Accessory nerve (anat.) 20-109
Accessory pigment (bot.) 22-38
Accho, Pal.: see Acre
Accl, Sp.: see Guadix
Acciaiuoli (It. fam.) 3-173
ACCIDENT (law) 1-76
 Legal Medicine 17-166, 167
 tort 17-78
Accident (philos.):
 Invention 15-327
 Transubstantiation 27-27
Accident insurance:
 Fringe Benefits 12-98
 Health Insurance 13-913
 Industrial Injuries 13-252
 Legal Medicine 17-167
 Liability and Property Insurance 17-287
 Social Security 25-136
Accidentals (mus.):
 Chromaticism 6-672
ACCIDENTS 1-77
 airplane 1-395; 2-875; 9-163
 Alcoholism 1-516, 517
 Automobile 2-825, 847
 Coal 7-139
 Criminal Investigation 8-207
 Death 8-564
 Disease 9-172
 Drowning 9-403
 First Aid 11-266
 Lightning 17-475
 Mining 19-174
 nuclear reactor 20-511t
 poisoning 22-292
 railroad 9-165
 Tort 26-865
 Tunnel 27-226, 231, 232
 See also Disasters
Acción Democrática (AD) (Venez. pol. party) 27-954, 957, 958
ACCIPITER (bird) 1-81
 Falconry 10-852
 Hawks 13-882
ACCIUS, Lucius (Rom. dram.) 1-81
ACCLAMATION (pol.) 1-81
Acclimation (biol.) 9-593
ACCLIMATIZATION (biol.) 1-81
 Desert 9-8
 Ecology, Human 9-593
Acco: see Acre, Isr.
ACCOLTI, Benedetto (It. eccl.) 1-82
ACCOLTI, Benedetto (It. jur.) 1-82
ACCOLTI, Bernardo (It. poet) 1-82
ACCOLTI, Francesco (It. jur.) 1-82
ACCOLTI, Pietro (It. card.) 1-82
Accommodation (biol.) 1-82
 See also Adaptation
ACCOMMODATION (com.) 1-82
Accommodation (ophthal.) 10-813; 1-82
 Gullstrand, A. 13-601
Illus. 10-816
Accommodation (sociol., psych.) 1-82
 Child Development 6-454
Accommodation (theol.) 1-82
ACCOMPANIMENT (mus.) 1-82
ACCOMPLICE (law) 1-83
ACCORAMBONI, Vittoria (It. lady) 1-83
ACCORD AND SATISFACTION (law) 1-83
Accordion (card game) 25-201
ACCORDION (mus.) 1-83
 Concertina 7-502
Accountant of the navy (U.S.) 20-33
ACCOUNTING AND BOOKKEEPING 1-84
 Amortization 1-752
 Auditor 2-676
 Babylonia 3-11
 Book Value 4-248
 Business Careers 5-43
 Business Education 5-49, 50
 Calculating Machine 5-162
 Career Planning 5-643; 1-92
 Cash Flow 5-760
 Data Processing 8-517, 518
 Depreciation 8-746
 Goodwill 13-79
 Income 14-846
Accounts, Bureau of (U.S.) 27-49

Accounts payable (fin.) 8-517
Accounts receivable (fin.) 8-167
 Data Processing 8-517
 Factoring 10-827
ACCRA, Ghana 1-98; 12-715, 716
 Library 17-323
Illus. 17-LIBRARY
Accreditation (dipl.) 9-143, 149
Accreditation (hospitals) 14-438
ACCREDITATION OF SCHOOLS AND COLLEGES 1-98; 7-247; 9-690
 Business Education 5-50, 51
 Curriculum 8-342
 Junior and Community Colleges 16-225
 Medical Education 18-613
Accrediting Commission for Business Schools 5-52
Accrual accounting 1-90
Accrued interest (fin.) 3-202
Acculturation (sociol.) 8-317
 Folklore 11-498r
ACCUMULATOR (mech.) 1-99
Accuracy (meas.) 18-584
Accusation (law) 15-66
ACCUSATIVE (gram.) 1-99; 5-756
 Greek 13-437
 Inflection 15-158
 Latin 16-789, 790
Accusatory criminal procedure (law) 17-71
Accutron: see Electronic clocks and watches
ACD solution (anticoagulant) 4-96
Ace, paint. (Rauschenberg):
Illus. 21-258
Aceh, Indon.: see Atjeh
Acehnese (Asian people): see Achinese
Acephala (mollusk): see Pelecypoda
Acer (bot.): see Maple
ACESTES (Gr. myth.) 1-39
ACETABULUM (anat.) 14-215; 21-617; 24-887
Acetal resin 22-216, 219
ACETALDEHYDE (chem.) 1-99, 521; 21-411
Acetamide (chem.) 1-741
Acetaminophen (drug) 1-775
 Phenacetin 21-858
ACETANILIDE (drug) 1-99
ACETATES (chem.) 1-99
 See also Cellulose Acetate
ACETIC ACID 1-100, 107
 Acetates 1-99
 Bloch, K. E. 4-83
 Fermentation 11-111
 Photography 22-25
 Vinegar 28-134
ACETIN (chem.) 1-100
ACETOACETIC ESTER (chem.) 1-100; 6-384
 Tautomerism 26-315
Acetoin (chem.) 11-111
ACETONE (chem.) 1-100
 Alcohol 1-515
 Ketone 16-410
 Phenol 21-858
 Solution 25-210
Acetophenetidin (drug): see Phenacetin
Acetosellic acid (chem.) 21-156
Acetyl coenzyme A (biochem.) 3-760; 10-493
 Glycolysis 12-820
ACETYLCHOLINE (biochem.) 1-101
 Alzheimer's Disease 1-649
 Atropine 2-655
 Bronk, D. W. 4-595
 Dale, Sir H. H. 8-435
 Drug 9-407
 Hives 14-253
 Muscle 19-632
 Myasthenia Gravis 19-683
 Nervous System 20-107, 110
 Parkinson's Disease 21-463
ACETYLENE 1-101
 Calcium Carbide 5-159
 Carbide 5-620
 Carbon 5-623
 Gas 12-323
 Nieuwland, J. A. 20-328
Acetylene black (chem.) 5-624
Acetylides (chem.) 5-620
ACETYLMETHADOL (drug) 1-101
Acetylsalicylic acid (chem.): see Aspirin
ACEVEDO DIAZ, Eduardo (Uru. nov., pol.) 1-101
Acey deucey (game) 3-21

Acha (q. of Northumbria) 20-458c
Achad Ha-Am (Jew. philos.): see Achad Ha-Am
ACHAEA, anc. reg., Gr. 1-101, 102; 13-365, 402
 Rome, Ancient 23-710
Achaea, Principality of (Gr. hist.) 1-101; 13-372
 Feudalism 11-141
Achaean Greek (lang.) 1-212
ACHAEAN LEAGUE (Gr. hist.) 1-102; 13-400, 402
 Argos 2-279
 Cleomenes 7-50
 Corinth 7-793
 Hellenistic Age 14-72
 Philopoemen 21-924
 Rome, Ancient 23-710
ACHAEANS (Gr. people) 1-102
 Aegean Civilization 1-209, 212
 Asia Minor 2-511
 Greek Language 13-434
ACHAEMENIDS (Pers. dyn.) 1-102; 14-940; 15-377
 Afghanistan 1-253
 Armenia 2-332
 Artaxerxes 2-398
 Bactria 3-40
 Cambyses 5-260
 Cuneiform 8-325
 Cyrus the Great 8-387
 Darius 8-500
 Elam 10-109
 Pasargadae 21-502
 Persepolis 21-727
 Persia, Ancient 21-733
 Persian Art and Architecture 21-743
 Persian Language 21-752
 Russia 24-1
 Satrap 24-295
 Map 21-733
ACHAN (Bib.) 1-102
Achard, Franz Karl (Ger. chem.) 25-850
Acharnians, The, play (Aristophanes) 2-286
ACHATES (Gr. legd. hero) 1-102
Achaz (k. of Judah): see Ahaz
Achdut Ha'avoda (Isr. pol. party) 15-534
Acheampong, Ignatius (Ghanaian sol., pol.) 12-719
Achebe, Chinua (Nig. nov.) 1-275; 20-337d, 510g
ACHELOUS (Acheoos), riv., Gr. 1-102
 Aetolia 1-240
 Dam 8-449
Achelous (Gr. myth.) 1-102
Achene (fruit) 12-133
 Seed 24-516
ACHENWALL, Gottfried (Ger. econ.) 1-103
Achernar (astron.) 10-547; 25-596
Acheron, riv., Gr. 1-103
ACHERON (myth. riv.) 1-103
Acheson, Archibald (Brit. col. gov.): see Gosford, 2d Earl of
ACHESON, Dean Gooderham (Amer. states.) 1-103; 9-145; 25-618
ACHESON, Edward Goodrich (Amer. inv.) 1-103
ACHEULIAN (archaeo.) 1-103; 2-207
 Africa 1-313
 Cave Dwellers 6-106
 Human Being 14-545f
 Stone Age 25-745, 746, 748
 Technology 26-358
Achievement (her.) 14-118
Illus. 14-116
Achievement behavior (psych.) 6-459
ACHIEVEMENT TEST (psych.) 1-104; 9-716, 717, 723
 Aptitude Test 2-130
 Colleges 7-252
 Curriculum 8-342
 educational tests 9-722
 Intelligence 15-245
 Reading 23-285
 Testing 26-529, 534
Illus.: examples 9-719
ACHILL, isl., Ire. 1-104
 Map 15-407
ACHILLES (Gr. legd. hero) 1-104; 13-419
 Agamemnon 1-328
 Ajax 1-433
 Hector 14-44
 Iliad 14-756
 Patroclus 21-537