The New Encyclopaedia Britannica

THE INDEX

L–Z

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and thus be human life enriched."

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How to use the INDEX

The INDEX to volumes 1 to 29 begins on page 1 of this volume. The INDEX is the result of an accumulation of hundreds of thousands of references locating precisely the section of a page in which a person, place, thing, or idea is mentioned in any of the thousands of *Encyclopadia Britannica* articles. These references have been assembled, combined, edited, and alphabetized to make an INDEX of more than 400,000 references. This INDEX gathers together all the topics covered by the more than 40,000,000 words in the text, sorts them out, and tabulates them for much the same reason that roads and signposts are planned and built in an unfamiliar country.

Encyclopadia Britannica is so vast a work that it cannot be used to greatest advantage without first consulting the INDEX. For example, if readers turn to "United Kingdom" in Volume 17, they will find a long article, but this by no means represents all the information in *Britannica* about the United Kingdom. To find all of this material, readers must go to the INDEX, where, under the entry heading "United Kingdom," they will find not only the reference to the main article but also about 1,000 references to many related articles throughout the 29 text volumes of *Britannica.*

Or readers may wish to learn something about, say, joint disease. If they look in MICROPAEDIA Volume 6 at the appropriate alphabetical position, they will not find an article on joint disease. The INDEX, however, lists references to three other articles in *Encyclopædia Britannica* in which information on joint disease may be found.

Readers who turn to the INDEX first will use *Britannica* most intelligently and profitably. Because the purpose of the many thousands of INDEX entries is to classify, clarify, and search out specific information, much attention has been given to their simplification. All entry headings, regardless of the number of words they contain, are considered single headings and are alphabetized word by word according to the INDEX alphabetization rules explained at the end of this Introduction.

Entry headings for towns are followed by abbreviations giving the country, state, or other political subdivision in which the towns are situated. Names of lakes, rivers, and mountains are identified as physical features. Persons are often identified in parentheses by nationality or profession or both. Entry headings having identical spellings are usually followed by a parenthetical descriptive word or abbreviation. In the case of entry headings under which scores of references appear, the references are grouped under subheadings. For example, country articles usually have such subheadings as agriculture, forestry, and fishing; commerce and industry; education; history; etc. These subheadings are also arranged alphabetically.

In addition to containing entry headings that have volume and page references, the INDEX has thousands of cross-references. Cross-reference entries for alternative spellings and titles send readers to the main spelling or title. For example, the cross-reference "Constantinople: see Istanbul" means that all references with information about Constantinople will be listed under Istanbul. It is important to remember that cross-references in the INDEX refer only to other INDEX entries.

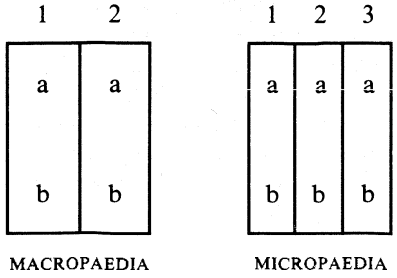
At the top of the outside column of each page of the INDEX is a key word or heading that identifies, on the left-hand page, the first entry or, on the right-hand page, the last entry. These enable readers to find more readily the subjects included on the two pages. Readers are also urged to study the Index Rules, which immediately follow this Introduction. There they will find detailed discussions and examples of the rules concerning geographical entries, references to illustrations, and so on. A List of Abbreviations used in the INDEX follows the Rules.

Index Rules. In the following INDEX, entry headings are set flush with the left-hand margin in a column and are followed by an identifying phrase or word in parentheses; if the INDEX entry has a corresponding article in the text, the volume and page number of that article immediately follow the entry heading and identifier, on the same line if space permits. Subordinate to the entry heading are the subheadings referring readers to other articles containing information on the subject. These subheadings have a short phrase indicating the context in which the information will be found and are indented to indicate different levels of subordination.

Bacon, Roger, or Doctor Mirabilis
(Eng. philos. and sci.)
1:777:3a
contribution to
philosophy **25**:753:2a
Aristotelianism **14**:71:2a
Empiricism **25**:619:1a
science **27**:32:1a
automaton **1**:727:1b
explosives **21**:276:1b
natural sciences **18**:615:1a
rockets **29**:567:1b
technology **28**:480:2b
telescope lens **23**:751:2b
study of religion **26**:551:1a
views on alchemy **25**:78:2a

Entries in quotation marks denote titles of written material and works of art, such as books, paintings, newspapers, symphonies, etc.

All references to text articles in the MACROPAEDIA and MICROPAEDIA show the volume, page number, column of the page, and a letter "a" or "b" indicating the upper or lower half of the column. For example, **1**:485:3b points to the MICROPAEDIA Volume 1, page 485, the third column of the page, and the lower half of that column.



References to the PROPAEDIA volume may be entered on the first line under an entry heading and refer to the PROPAEDIA division or part in which the subject is broadly covered in the outline of knowledge.
Examples:

see PROPAEDIA: Part Three
see PROPAEDIA: Part One, Division II

They may also be placed at the end of an index entry in the following form:

for a list of related subjects see
PROPAEDIA: Section *421*

(In this example, 421 denotes a section number, not a page number.)

References to the BRITANNICA WORLD DATA occur in the following form:

see BRITANNICA WORLD DATA for
statistical information.

Illustrations. Illustration references are preceded by the italicized abbreviation *illus.* If the illustration is a list, map, table, or chart, the reference is preceded by the italicized word list, map, table, or chart.

Alphabetization. The INDEX uses the word-by-word system of alphabetization (where a word is defined as one or more characters separated from the next one or more characters by a space). When one word differs from another only by the presence of additional letters at the end, the shorter word precedes the longer (*e.g.,* "gold" precedes "golden"). Entry headings consisting of more than one word are alphabetized among the single-word entries according to the first word, so that, for example, all of the entries starting with "gold" will be alphabetized in sequence. Entry headings having the first word in common (*e.g.,* "Gold Coast," "Gold Cup") will then be alphabetized among themselves according to the second word. Entry headings having three or more words in common follow the same principles.

Following is a set of examples:

gold
Gold, Helen
Gold, Thomas
Gold Coast
Gold Cup
Goldbach, Christian
Goldbach problem
Golden
Golden Gate
Golden Gate Bridge
Golden Gate Park
Goldenberg, Harold Mark

Diacritical marks do not affect alphabetization. If a diacritic is the only difference between two entry headings, the entry without the diacritic is first.

Hyphenated words (and words separated by en dashes [–]) are treated as two separate words, the hyphen (or dash) being treated as a space. Quotation marks used in titles of works are generally ignored in alphabetization. If the only difference between two entries is the presence of quotation marks in one, the entry heading without quotation marks is placed first.

Entry headings whose first characters are numerals are alphabetized as though the numbers were spelled out. The numerical components of entries are arranged according to their numerical value. from lowest to highest. For example:

Eight Immortals
1812, War of
Eighteenth Amendment
Eightfold Path

B-12
B-17
B-29
B-52

Abbreviations for "Saint(s)" and its foreign-language equivalents (St., Sta., Ste., SS., etc.) are alphabetized as if they were spelled out.

Saint John
Sainte-Beuve, Charles-Augustin
Sainte Marie aux Mines
SS. Peter and Paul Cathedral
Saintsbury, George Edward

Proper names having the prefix "Mac" or its contracted forms "Mc" and "M' " are all alphabetized as "Mac."

McCarey, Leo
M'Carthy, Charles
MacCarthy, Joseph
M'Carthy, Justin
MacCarthy Island

Honorifics and terms of address, such as "Sir" or "Mrs.," are considered in alphabetization only in titles that are otherwise identical.

Wood, Robert
Wood, Mrs. Robert
Wood, Sir Robert
Wood, Robert Alton

Identical entry headings are arranged in the following order: persons, places, things. For example,

Mercury (Roman deity)
Mercury (planet)
mercury (chem. element)

Geographical *Entries.* Geographical entities having identical spellings are grouped alphabetically by country (i e., Albania, Austria, . . . Zimbabwe). Within each country, such entities are listed in the following order: (1) political subdivision (province, district, etc.) in descending order or size; (2) city: (3) physical feature. For example:

Newport (N.S.W.. Austr.)
Newport (Que., Can.)
Newport (Mayo, Ire.)
Newport (Tipperary, Ire.)
Newport (Dyfed, U.K.)
Newport (Gwent, U.K.)
Newport (I. of Wight, U.K.)
Newport (Salop, U.K.)
Newport (Ark., U.S.)
Newport (co., R.I., U.S.)
Newport (R.I., U.S.)
Newport Beach (Calif., U.S.)
Newport News (Va., U.S.)

Physical features that cross national boundaries are grouped alphabetically by continent (Africa, Antarctica, Asia, etc.), and such groups precede country groupings.

Niagara Falls (waterfall, N.Am.)
Niagara Falls (Ont., Can.)
Niagara Falls (N.Y.. U.S.)

Abbreviations Used in the INDEX

abbrev.	abbreviation
acct.	accounting
A.C.T.	Australian Capital Territory
act.	actor. actress
AD	in the year of our Lord (Latin *anno Domini*)
adj.gen.	adjutant general
adm.	admiral
adv.	advertising
Aeg.S.	Aegean Sea
aero.	aeronautics. aeronautical
Af.	Africa, African
Afg.	Afghanistan. Afghani
agn.	agriculture. agriculturist, agricultural
AH	in the year of the hijrah (hegira), or Muslim era (Latin *anno* Hegirae)
Ala.	Alabama
Alb.	Albania, Albanian
Alg.	Algeria, Algerian
Alsk.	Alaska. Alaskan
Alta.	Alberta
Am.	American
Am.Sam.	American Samoa
anat.	anatomy
anc.	ancient
And.	Andorra, Andorran
And.Is.	Andaman Islands
Ang.	Angola, Angolese
Ant.	Antigua. Antiguan
Antarc.	Antarctica
anthol	anthology, anthologist
anthro.	anthropology anthropologist, anthropological
Arab.	Arabia, Arabic. Arabian
arch.	architecture. architect, architectural
archae.	archaeology, archaeologist. archaeological
archbp.	archbishop
archip.	archipelago
Arct.	Arctic
Arg.	Argentina, Argentine
arith.	arithmetic
Ariz.	Arizona
Ark.	Arkansas
Arm.	Armenia, Armenian
arrond.	arrondissement
an.	artist
As.	Asia, Asiatic, Asian
Assoc.	Association
A.S.S.R.	Autonomous Soviet Socialist Republic
astrol.	astrology, astrologer
astron.	astronomy, astronomer, astronomical
astrophys.	astrophysics, astrophysicist, astrophysical
Atl.O.	Atlantic Ocean
au.	author
Aus.	Austria, Austrian
Austr.	Australia. Australian
aut.area	autonomous area
Av., or Ave.	Avenue. Avenida
b.	born
Babyl.	Babylonia, Babylonian
bac.	bacteriology. bacteriologist
Bah.	Bahamas, Bahamian
Bahr.	Bahrain, Bahrainran
Bal.Is.	Balearic Islands
Bangla.	Bangladesh, Bangladeshi
Barb.	Barbados. Barbadian
ban.	baronet
Bav.	Bavaria, Bavarian
BC	before Christ
B.C.	British Columbia
Beds.	Bedfordshire
Belg.	Belgium, Belgian
Ber.	Bermuda, Bermudan
Berks.	Berkshire
bev.	beverage
Bhut.	Bhutan, Bhutanese. Bhutani
bibl.	biblical
biblio.	bibliography, bibliographer
biochem.	biochemistry, biochemist
biog.	biography, biographer
biogeog.	biogeography
biol.	biology, biologist, biological
bldg.	building
Blvd.	Boulevard
Bohem	Bohemia, Bohemian
Bol.	Bolivia, Bolivian
boro.	borough
bot.	botany, botanist
Bots.	Botswana (country and people)
bp.	bishop
Br.	British, Britain
Braz.	Brazil, Brazilian
brig.gen	brigadier general
Brun.	Brunei
Bucks.	Buckinghamshire
Bulg.	Bulgaria, Bulgarian
Bur.	Burma, Burmese
Buru.	Burundi. Burundian
bus.	business
Byz.	Byzantium. Byzantine
c.	about. approximately (Latin *circa*)
Calif.	California
C.Am.	Central America
Camb.	Cambodia, Cambodian
Cambs.	Cambndgeshire
Camer.	Cameroon Cameroons
Can.	Canada, Canadian
Can.Is.	Canary Islands
card.	cardinal
Carib.	Canbbean
caric.	cancature. cancatunst
cartog.	cartography, cartographer
Cath.	Catholicism. Catholic
cath.	cathedral
Cauc.	Caucasia, Caucasus
Cay.Is.	Cayman Islands
CE	Christian Era, Common Era
Celt.	Celtic
Cent.	Central
cent.	century
Cent. Af.Rep.	Central African Republic
chan.	channel
Chan.Is.	Channel Islands
chem.	chemistry, chemist, chemical
Ches.	Cheshire
Chil.	Chilean
Chin.	Chinese
chron.	chronology
class.	classification. classical
cler.	clergyman
Cleve.	Cleveland (English county)
Co.	Company
co.	county
col(s).	column(s)
Col.	Colonel
coll.	college; collector, collection
Colo.	Colorado
Colom.	Colombia. Colombian
com.	commerce, commercial; commission; committee; commune
Com.	Comoros
comdr.	commander
comdt.	commandant
commo.	commodore
comp.	composer: compiler
Con.B.	Congo, Republic of (Brazzaville), Congolese
Con.K.	Congo, Democratic Republic of (Kinshasa), Congolese
Conn.	Connecticut
const.	construction
Corn.	Cornwall
Corp.	Comoration
cpl.	corporal
C.R.	Costa Rica, Costa Rican
crit.	critic, criticism
crystall.	crystallography, crystallographer
C.Verde	Cape Verde
Cyp.	Cyprus. Cypriot
Czech.	Czechoslovakia, Czechoslovak(ian)
d.	died
Dan.	Danish
D.C.	District of Columbia
Del.	Delaware
Dem.	Democratic
Den.	Denmark
dept.	department, *département*
Derby.	Derbyshire
dermatol.	dermatology, dermatologist
D.F.	Federal District (Spanish Distrito *Federal*).
dial.	dialect
dict.	dictionary
dipl.	diplomat
dir.	director
dist.	district
div.	division
dom.	dominion
Dom	Dominica
Dom.Rep.	Dominican Republic
Dr.	Doctor: Drive
dram.	dramatist
Drav	Dravidian
Du.	Dutch
E.	East, Eastern
E.Af.	East Africa
Ec.	Ecuador, Ecuadorian
eccl.	ecclesiastical, ecclesiast
econ.	economics, economist
ed.	edition, editor
educ	education, educator
e.g	for example (Latin *exempli gratia*)
E.Ger.	East Germany
Egy.	Egypt, Egyptian
elec.	electricity, electric, electrical
El Sal.	El Salvador
embryol.	embryology
emp.	empire. emperor. empress
encyc.	encyclopaedia
Eng.	England. English
engr.	engraving, engraver
engin.	engineering, engineer
entom.	entomology
Equat. Guin.	Equatorial Guinea
est.	estimate, estimated: estuary
Est.	Estonia, Estonian
E Susx	East Sussex
et *al.*	and others (Latin et *alii,* or aliae)
et seq.	and following page(s) (Latin *et* sequens, requentes, or *sequentia*)
etc.	and so forth (Latin et cetera)
Eth.	Ethiopia, Ethiopian
ethnol.	ethnology, ethnologist
Eur.	Europe, European
exec.	executive
expl.	explorer
f.	father
Faer.Is.	Faeroe Islands
Falk.Is.	Falkland Islands. Falklander
fam.	family
Fed.	Federation. Federal
fig.	figure
Fili.	Filipino (native of the Philippines)
Fin	Finland, Finnish
fin.	finance
fl.	flounshed (Latin *floruit*)
Fla.	Florida
Flem.	Flemish
fol.	following
Found.	Foundation
Fr.	France, French
Ft.	Fort
Ga.	Georgia
Gab.	Gabon, Gabonese
Gam.	Gambia, Gambian
gen.	general
geneal.	genealogy, genealogist, genealogical
genet.	genetics, geneticist
geog.	geography, geographer. geographical
geol.	geology, geologist, geological
geom	geometry
Ger.	Germany. German
Gib.	Gibraltar
Glos.	Gloucestershire
gov.	governor
govt.	government
Gr.	Greece, Greek
gram.	grammar. grammarian
Green.	Greenland
Gren.	Grenada
Gt.Br.	Great Bntain
Gtr London	Greater London
Gtr Mches.	Greater Manchester
Guad.	Guadeloupe
Guat.	Guatemala, Guatemalan
Guin.	Guinea, Guinean
Guy.	Guyana
h.	husband
Hants.	Hampshire
Haw.	Hawaii, Hawaiian
Heb.	Hebrew
her.	heraldry
Here. &Worc.	Hereford and Worcester
Herts.	Hertfordshire
hist.	history, historian, historical
H.K.	Hong Kong
HMS	His. or Her, Majesty's Ship, or Service
Holl.	Holland
Hon.	Honourable
Hond.	Honduras, Honduran
hort.	horticulture. horticulturist
hts.	heights
Humbs	Humberside
Hung	Hungary, Hungarian
Hwy.	Highway
Ia.	Iowa
ibid.	in the same place (Latin ibrdem)
Ice.	Iceland. Icelandic
Ida.	Idaho
I.E.	Indo-European
i.e.	that is (Latin *id est*)
Ill.	Illinois
illus.	illustration
Inc.	Incorporated
incl.	including
Ind.	Indiana; independent
Ind.O.	Indian Ocean
Indon.	Indonesia, Indonesian
indus.	industry. industrialist, industrial
Inst.	Institute, Institution
instru.	instrument
internat.	international
inv.	inventor
I.of Man	Isle of Man
I.of Wight, or I.O.W.	Isle of Wight
Ire.	Ireland
is., isl(s).	Island, Islands
Isr.	Israel, Israeli
isth.	isthmus
It.	Italy. Italian
Iv.Cst	Ivory Coast
Jam.	Jamaica, Jamaican
Jor.	Jordan, Jordanian
journ.	journal, journalist. journalism
Jr.	Junior
jur.	jurist
k.	king
Kamp.	Kampuchea
Kan.	Kansas
Ken.	Kenya, Kenyan
king.	kingdom
Kiri.	Kiribati
Kor.	Korea, Korean
Kuw.	Kuwait, Kuwaiti
Ky.	Kentucky
l.	lake; lane
La.	Louisiana
Lab.	Labrador. Labradorian
Lancs.	Lancashire
lang.	language
Lat.	Latin
law.	lawyer
lb	pound(s)
Leb.	Lebanon, Lebanese
Lee.Is.	Leeward Islands

leg.	legend, legendary; legislation
Leic.	Leicestershire
Les.	Lesotho
Lib.	Liberia, Liberian
libn.	librarian
Liech.	Liechtenstein
lieut.	lieutenant
Lincs.	Lincolnshire
ling.	linguistics
lit.	literature, literary
Lith.	Lithuania, Lithuanian
litho.	lithography, lithographer
Ltd.	Limited
Luxem	Luxembourg, Luxembourgian
m.	married
Maced.	Macedonia, Macedonian
Mad.	Madagascar, Madagascan
mag.	magazine
maj.	major
Mal.	Malaysia, Malaysian
Malag. Rep.	Malagasy Republic
Mald.	Maldives, Maldivan
Man.	Manitoba
manag.	manager
Man.	Martinique, Martinican
Mass.	Massachusetts
math.	mathematics, mathematician. mathematical
Maur.	Mauritius; Mauritania
Md.	Maryland
Me.	Maine
meas.	measure, measurement
mech.	mechanics
med.	medicine, medical
Medit.	Mediterranean
mer.	merchant
Mers.	Merseyside
Mesop.	Mesopotamia, Mesopotamian
met	metallurgy. metallurgist, metallurgical
meteorol.	meteorology. meteorologist
Mex.	Mexico, Mexican
mfr.	manufacture. manufacturer
mi	mile(s)
Mich.	Michigan
microbiol.	microbiology, microbiologist
mil.	military
min.	mineral, mining. mineralogist. mineralogical
minis.	minister
Minn.	Minnesota,
Miss.	Mississippi
Mo.	Missouri
mod.	modern
Mon.	Monaco, Monacan, Monagasque
mon.	monument
Mong.	Mongolia, Mongolian
Mont.	Montana
Monts	Montserrat
Mor.	Morocco, Moroccan
Moz.	Mozambique. Mozambican
ms(s).	manuscript(s)
Mt., Mt(s).	Mount, Mountain(s)
mun.	municipality
mus.	music, musician, musical
myth.	mythology, mythological
N.	North. Northern
N.Af.	North Africa
N.Am.	North America
nat.	naturalist
natl.	national
naut.	nautical
nav.	naval
navig.	navigator
N.B.	New Brunswick
N.C.	North Carolina
N.Cal.	New Caledonia
N.Dak., or N.D.	North Dakota
Neb.	Nebraska
Neth.	The Netherlands
Neth.Ant.	Netherlands Antilles
	Nevada
news	newspaper
Nfd.	Newfoundland
N.G.	New Guinea
N.H.	New Hampshire
Nic.	Nicaragua, Nicaraguan
nick.	nickname
Nig.	Nigeria, Nigerian
N.Ire.	Northern Ireland
N.J.	New Jersey
N.Mex., or N.M.	New Mexico
Nor.	Norway, Norwegian
Norf.	Norfolk
Northants.	Northamptonshire
Northum.	Northumberland
Notts.	Nottinghamshire
N.S.	Nova Scotia
N.S.W.	New South Wales
N.Terr.	Northern Temtory (Australia)
N.W. Terr.	Northwest Temtories (Canada)
N.Y.	New York
N.Y.C.	New York City
N Yorks.	North Yorkshire
N.Z.	New Zealand
obl.	oblast
of.	officer
offi.	official
Okla.	Oklahoma
okr.	okrug
Ont.	Ontario
op.cit.	in the work cited (Latin *opere,* or opus, *citato*)
Ore.	Oregon
org(s).	organization(s)
osteol.	osteology
osteop.	osteopathology, osteopath
Oxon.	Oxfordshire
p.	page
Pa.	Pennsylvania
Pac.O.	Pacific Ocean
paint.	painting, painter
Pak.	Pakistan, Pakistani
Pal.	Palestine, Palestinian
paleob.	paleobotany, paleobotanist
paleog.	paleogeography
paleon.	paleontology, paleontologist
Pan.	Panama, Panamanian
Pap.N.G.	Papua New Guinea, Papuan
Par.	Paraguay, Paraguayan
parl.	parliament
path.	pathology, pathologist
P.E.I.	Prince Edward Island
penin.	peninsula
period.	periodical
Pers.	Persia, Persian
petrol.	petrology, petrologist
pharm.	pharmacy, pharmacist, pharmacology, pharmacologist
Phil.	Philippines
philan.	philanthropy, philanthropist
philol.	philology, philologist
philos.	philosophy, philosopher
phot.	photography, photographer
phys.	physics, physicist
physic.	physician
physiol	physiology, physiologist, physiological
plat.	plateau
Pol.	Poland, Polish
pol.	politics, politician. political
pol.sci	political science
Poly.	Polynesia, Polynesian
POP.	population
Port.	Portugal, Portuguese
poss.	possession
P.R.	Puerto Rico, Puerto Rican
pr.	priest
preft.	prefecture
prelim.	preliminary (census)
pres.	president
print:	printing, printer
pr.min.	prime minister
prof.	professor
Prot.	Protectorate; Protestant
prov.	province, provincial
pseud.	pseudonym, pseudonymous
psychol.	psychology, psychologist, psychological
pt.	point
pta.	punta
pte.	pointe
ptg.	printing
pub.	public; publication
publ.	publisher
pvt.	private
q.	queen
qq.v.	which see (plural; Latin quae vide)
Que.	Quebec, Quebecer, Quebecker
Queens., or Qld.	Queensland
q.*v.*	which see (singular; Latin quod vide)
Rd.	road
rear adm.	rear admiral
ref.	reference
reg.	region
rel.	religion, religious
rep.	representative; republic
res.	reservoir
reserva.	reservation
resid.	residency
rev.	revised, revision; revue; revolution, revolutionary
R.I.	Rhode Island
riv.	river
Rom.	Romania, Romanian
R.R.	railroad
Russ.	Russia, Russian
Rw.	Rwanda, Rwand
ry.	railway
S.	South, Southern
S.	Saint (*San, Santo, Sant'*)
S.Af.	South Africa, South African
Sam.	Samoa, Samoan
S.Am.	South America, South American
San Mar.	San Marino
Sask.	Saskatchewan
Saud. Arab.	Saudi Arabia, Saudi, Saudi Arabian
S.Austr.	South Australia
S.C.	South Carolina
Scand.	Scandinavia, Scandinavian
schol	scholar
sci.	science, scientist, scientific
Scot.	Scotland, Scottish
sculp.	sculpture, sculptor
S.Dak., or S.D.	South Dakota
sen.	senator
Sen.	Senegal, Senegalese
Sey.	Seychelles
S.F.S.R	Soviet Federated Socialist Republic
sgt.	sergeant
Shrops.	Shropshire
Sib.	Siberia, Siberian
Sing.	Singapore, Singaporan
S.L.	Sierra Leone
soc.	society, social; socialist
sociol.	sociology, sociologist, sociological
Sol.Is.	Solomon Islands
Som.	Somali, Somalia (Somali Republic), Somalian
Somer.	Somerset
Sov.	Soviet
Sp.	Spain. Spanish
spr(s).	spring(s)
Sr.	Senior
SS	Steamship
SS.	Saints
S.S.R.	Soviet Socialist Republic
St.	Saint (*Sankt,* Sint); street
Sta.	Saint (*Santa*)
Staffs.	Staffordshire
states.	statesman
statis.	statistician, statistics
Ste.	Saint (*Sainte*)
St.Kitts	Saint Kitts-Nevis-Anguilla
St.P.&M.	Saint Pierre and Miquelon
str.	strait
Sud.	Sudan, Sudanese
Suff.	Suffolk
Sum	Sumatra
Sur.	Suriname
surg.	surgery, surgeon
S.W.A	South West Africa/ Namibia
Swaz.	Swaziland
Swed.	Sweden, Swedish
Switz.	Switzerland
S Yorks.	South Yorkshire
Syr.	Syria, Syrian
Tai.	Taiwan, Taiwanese
Tan., or Tanz.	Tanzania, Tanzanian
Tas.	Tasmania, Tasmanian
tech.	technology, technological
Tenn.	Tennessee
terr.	territory, temtorial
Tex.	Texas
Thai.	Thailand, Thai
thea.	theatre, theatrical
theol.	theology, theologian, theological
Tib.	Tibet, Tibetan
trag.	tragedy, tragedian
Tr. and Tob.	Trinidad and Tobago
trans.	translated, translation, translator(s)
trib	tributary
trig.	trigonometry
Tr.Terr. Pac.Is.	Trust Territory of the Pacific Islands
Tun.	Tunisia, Tunisian
Tur.	Turkey, Turkish
Tuv.	Tuvalu, Tuvaluan
twp.	township
typog.	typography
U.A.E.	United Arab Emirates
Ugan.	Uganda, Ugandan
U.K.	United Kingdom
UN	United Nations
Univ.	University
Urug.	Uruguay, Uruguayan
U.S.	United States
U.S.A.	United States of America
uss	United States Ship
U.S.S.R.	Union of Soviet Socialist Republics
Va.	Virginia
val.	valley
Van.	Vanuatu
Venez.	Venezuela. Venezuelan
vet.	veterinary
Vic.	Victoria
vice adm.	vice admiral
vice pres.	vice president
Viet.	Vietnam, Vietnamese
vil.	vilayet
Vir.Is.	Virgin Islands
viz.	namely (Latin *videlicet*)
vol.	volume(s)
Vt.	Vermont
W.	West. Western
w.	wife
W.Af.	West Africa, West African
Warw.	Warwickshire
Wash.	Washington
W.Austr.	Western Australia
W.Ger.	West Germany
W.I.	West Indies
Wilts.	Wiltshire
Wis.	Wisconsin
W Mids	West Midlands
writ.	writer
W.Sam	Western Samoa, Western Samoan
W Susx	West Sussex
W.Va.	West Virginia
W.W.	world war
Wyo.	Wyoming
W Yorks.	West Yorkshire
Yem.	Yemen, Yemeni
Yugos.	Yugoslavia, Yugoslavian
Zimb	Zimbabwe, Zimbabwean
zool.	zoology, zoologist, zoological
Zor	Zoroastrianism

L

L chain, *or* light chain (biol.)
major ref. in Immunity **20:**837:1b
L–D process: *see* basic oxygen process
L-dopa (biochem.)
treatment of Parkinson's disease **9:**160:2a
L fibre (biol.): *see* salt receptor
L-function (math.)
major ref. in Number Theory **25:**25:1a
L-head engine (mech.)
cylinder block designs for gasoline engines **18:**481:2a
L. Straus and Sons (U.S. co.)
establishment by Straus family **11:**307:3b
La (chem. element): *see* lanthanum
LA (Br. assoc.): *see* Library Association
la (in proper names): *see* below and *see also* names spelled with no space after "la" (*e.g.*, LaFontaine, Sir Louis Hippolyte)

"De," "la," "van," and similar components of a name, when followed by a space, are alphabetized as separate words (e.g., *De Forest, Lee). When they are joined to the following part of a name, the combination is treated as a single word* (e.g., *DeForest, John William).*

La Baie (Que., Can.) **7:**61:1a
La Barre, Jean-François Lefebvre, chevalier de (Fr. nobleman)
Voltaire's reaction to his execution **19:**574:1a; **29:**542:1a
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La Boétie, Etienne de (Fr. au.)
association with Montaigne **24:**353:1b
La Bourdonnais, Bertrand-François Mahé, comte de (Fr. of.) **7:**61:1a
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India **21:**79:2a
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La Chapelle-aux-Saints fossil (paleon.)
compared with Asian fossils **14:**225:1a
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development of comédie larmoyante **28:**539:1b
La Chaux-de-Fonds (Switz.): *see* Chaux-de-Fonds, La
La Chétardie, Joachim-Jacques Trotti, marquis de (Fr. dipl.) **7:**61:3b
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la ch'in (mus. instru.): *see* yüeh-ch'in
La Condamine, Charles-Marie de (Fr. expl.) **7:**62:1a
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La Crosse Railroad (U.S. ry.)
contribution by Sage **10:**299:3b
La Curne de Sainte-Pelaye, Jean Baptiste de (Fr. lexicographer) **7:**62:2a
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La Farge, John (U.S. paint.) **7:**62:2b
role in stained glass revival **17:**199:1a
La Farge, Oliver Hazard Perry (U.S. au. and anthro.) **7:**62:3a
La Farina, Giuseppe (It. rev.) **7:**62:3b
La Fayette, Gilbert Motier de (marshal of Fr.) **7:**63:1a
La Fayette, Marie-Joseph-Paul-Yves-Roch-Gilbert du Motier, marquis de (Fr. noble): *see* Lafayette, Marie-Joseph-Paul-Yves-Roch-Gilbert du Motier, marquis de
La Fayette, Marie-Madeleine Pioche de la Vergne, comtesse de (Fr. au.), *or* Madame de La Fayette **7:**63:1b
contribution to French literature **19:**572:2b
La Flesche, Francis (U.S. ethnol.) **7:**63:2a
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La Follette, Robert Marion (U.S. sen.) **7:**63:3a
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Progressive Party **9:**722:2b
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La Libertad, *or* Libertad (dept., Peru) **7:**67:3a
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La Mesnardière, Hippolyte-Jules Pilet de (Fr. au.)
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La Mettrie, Julien Offroy de (Fr. physic. and philos.) **7:**68:3a
Descartes's influence **25:**632:1b
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"La Mort: Mon ironie dépasse toutes les autres" (print by Redon)
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La Mothe Le Vayer, François de, *or* Orosius Tubero (Fr. philos.) **7:**68:3b
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La Motte, Comtesse de (Fr. adventuress)
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La Motte, Jean-Baptiste de (Fr. arch.)
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lava plateau (geol.)
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"Lava'ih" (work by Jami)
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Laval, Carl Gustaf Patrik de (Swed. sci. and engin.) **7**:197:3b
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Vichy France **12**:345:3a
Laval, Université (univ., Quebec, Can.) **7**:198:3a
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establishment by Laval **7**:198:1b
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Lavallée, Calixa (Can. composer)
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Lavalleja (dept., Urug.) **7**:198:3a
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Laveaux, Etienne (Fr. colonial gov.)
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Laveran, Charles-Louis-Alphonse (Fr. physic. and path.) **7**:199:3a
Lavery, Sir John (Br. paint.)
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Lavigerie, Charles-Martial-Allemand (Roman Cath. archbp.) **7**:199:3b
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Lavinde, Gabriele de (It. cryptologist)
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Lavinia (Roman myth.)
association with Turnus **12**:67:3b
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Lavinium, *or* Pratica di Mare, *or* Laurolavinium (It.) **7**:200:1b
founding by Aeneas **1**:614:3b
Laviolette Bridge (bridge, Que., Can.)
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Berthollet **2**:160:3b
Laplace **7**:157:3a
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chemistry **14**:949:2a; **27**:39:2b; **28**:464:1b
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nitrogen **8**:727:3a
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acid structure **15**:1061:2b
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lavolta (dance): *see* volta, la
Lavon affair (Isr. hist.)
intelligence operations **21**:722:2b
"Lavorare stanca" (work by Pavese): *see* "Hard Labor"
"Lavoratore, Il" (It. Communist publ.)
association with Silone **10**:813:2b
Lavr School (school, Kiev, U.S.S.R.): *see* Kiev Academy
lavra (zool.)

significance to parasitic worms **24:**111:2b
Lávrion (Gr.): *see* Laurium
Lavrov, Pyotr Lavrovich. *or* Pyotr Lavrovich Mirtov (Russ. philos.) **7:**200:2a
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law **7:**200:2b
see PROPAEDIA: Part Five, Division V
see also bar association: judiciary; law, philosophy of; law, practice and profession of; law code: legal aid; legal education: legal ethics; legal systems; specific systems, *e.g.,* Anglo-Saxon law, common law. Germanic law, Roman law; branches of law, *e.g.,* business law; comparative law; constitutional law; criminal law; family law; international law: military law; procedural law; tax law; tort: transportation law: and countries, persons, and individual pieces of legislation by name
"Law" (bibl. lit.): *see* "Torah
LAW (mil. weapon): *see* light antitank weapon
LAW (U.S. org.): *see* American Wheelman, League of
Law. Andrew Bonar (pr.min. of U.K.) **7:**200:3a
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major ref: in Philosophies of the Branches of Knowledge **25:**727:1a *passim to* 734:1a
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Blackstone **2:**263:3a
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see also specific professions by name *e.g.,* barrister; judge: lawyer: solicitor
law, wager of (Eng. law): *see* compurgation
Law. William (Br. au.) **7:**201:1b
Law XII (1867, Aus.)
place in history of Austria **14:**508:1b
"Law and the Golden Calf, The" (paint. by Tintoretto)
discussed in biography **11:**790:1b
"Law as a Means to an End." *or* "Der Zweck im Recht" (work by Jhering)
discussed in biography **6:**548:3a
law code. *or* legal code (law) **7:**201:2a
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ancient Middle East **18:**630:1b; **21:**907:2b
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civil law **22:**925:1b
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public administration **26:**345:1b
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Law Courts (courthouse. London, U.K.): *see* Royal Courts of Justice
Law for the Protection of German Blood and German Honour (1935, Ger.): *see* Gesetz zum Schutzc des Deutschen Blutes und der Deutschen Ehre
law men
role in Scandinavian tribal law **22:**924:2a
law merchant **7:**201:3a
major ref: in Business Law **15:**385:2a
law of . . . . : *see under* substantive word, *e.g.* nature, law of, except as below
"Law of Civilization and Decay" (work by Adams)
discussed in biography **1:**81:1a
"Law of Freedom in a Platform, The" (work by Winstanley)
discussed in biography **12:**707:1h
"Law of Nature" (work by Locke)
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"Law of Population" (work by Sadler)
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Law Society (Br. legal org.)
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Lawa language
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Lawes, Sir John Bennet, 1st Baronet (Eng. agronomist) **7:**202:1b
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Lawes. Lewis Edward (U.S. penologist) **7:**202:2a
Lawes, William (Eng. comp.) **7:**202:2b
Lawler. Raymond Evenor (Austr. dram.) **7:**202:2b
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lawn leaf (bot.): *see* Dichondra
lawn moth (insect): *see* snout moth
lawn tennis (sport): *see* tennis
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Lawrence, Ernest Orlando (U.S. phys.) **7:**205:1a
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particle accelerators **3:**822:2b; **25:**445:1b
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Lawrence, Frederick William (Br. states.): *see* Pethick-Lawrence of Peaslake, Frederick William Pethick-Lawrence, Baron
Lawrence, Gertrude, *or* Gertrud Alexandra Dagma Lawrence Klasen (Br. act.) **7:**205:1b
Lawrence. H. Sherwood (U.S. physic.)
transfer factor discoveries **11:**895:3a
Lawrence, Sir Henry Montgomery (Br. colonial offi.) **7:**205:2a
Lawrence, Jacob (U.S. paint.) **7:**205:3a
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Lawrence, John Hundale (U.S. phys.)
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Lawrence, Sir Lawrence (Br. paint.)
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Bleeding Kansas incident **2:**279:2a
Lawrence, Saint (Christianity) **7:**203:1b
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Frederick William III *illus.* **4:**960
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Jenkinson, 2nd earl of Liverpool *illus.* 7:411
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Romilly *illus.* **10:**165
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Lawrence. Thomas Edward, *or* Lawrence of Arabia, *or* T. E. Shaw (Eng. writ. and adventurer) **7:**206:2b
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Egypt during World War I **21:**740:2a
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Lawrence of Brindisi. Saint, *or* Saint Laurence of Brindisi, *or* San Lorenzo da Brindisi **7:**203:1b
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discussed in biography **5:**97:2a
Lawrin (racehorse)
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major ref in History of Western Philosophy **25:**748:1b
discussed in biography **25:**887:1a
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education **25:**735:2a
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morality **25:**716:2b
politics **25:**973:2a
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dualism **26:**595:2b
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Laws for the Imperial and Court Officials, *or* Kinchu narabini Kuge Shohatto
role in Japanese history **22:**317:2a
Laws for the Military Houses: *see* Buke Sho-hatto
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Lawson, Andrew Cowper (U.S. geol.) **7:**208:3b
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Lawson, Henry Archibald (Austr. writ.) **7:**209:1b
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Lay, Horatio Nelson (Br. dipl.) **7**:210:2b
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Lay, William Ellsworth (U.S. outlaw): *see* Lay, Elzy
"La) de paix, Le" (work by Chartier)
discussed in biography **3**:132:3b
Lay Investiture Controversy *see* Investiture Controversy
"Lay of Thrym," *or* "Thrymskvida" (Ice. lit.)
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Lay-Osborn flotilla (Chin. hist.) 7:210:2b
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place in Hinduism **20**:604:2b
layali (mus.)
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contributions to archaeology **20**:637:2b
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Layari River (riv., Pak.)
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laying on of hands (Judaism and Christ.): *see* hands, laying on of
Layla (Islamic lit.): *see* Mainun and Layla
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"Lays from Strathearn" iwork bv Nairne)
discussed in biography **8**:487:2a
"Lays of the Scottish Cavaliers" (work by Aytoun)
discussed in biography **1**:752:3a
lavsan albatross. *or* Diomedea immutabilis (bird)
affected by World War II **15**:16:2b, 18:2b, *illus.*
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Laz language. *or* Chan language, *or* lazuri nena, *or* canuri ena (lang.) **7**:211:2b
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Lazar (prince of the Serbs)
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role in Serbian history **29**:1070:2a
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example of quarantine **9**:842:1a
Lazarev, Pyotr Petrovich (Sov. phys. and biophys.) **7**:211:2b
"lazarillo de ciegos caminantes, El" (work by Carrio de la Vandera): *see* "Guide for Inexperienced Travellers Between Buenos Aires and Lima"
"Lazarillo de Tormes" (Sp. novel)
aspect of Spanish history **28**:44:1a
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picaresque novel **9**:421:1b
Spanish Renaissance prose **28**:78:2b
Lazarist (Roman Cath. soc.): *see* Vincentian
Lazarsfeld, Paul Felix (U.S. sociol.) **7**:211:3a
association with Merton **8**:44:1a
Lazarus, *or* Eleazar (bibl. fig.) 7:212:1a
Lazarus, Emma (U.S. poet) **7**:212:1a
Lazarus, Fred, Jr. 7:212:1b
Lazarus, Herman (U.S. judge)
association with Newhouse **8**:657:1a
Lazarus, Moritz (Jewish phil. and psych.) **7**:212:1b
role in the history of the social sciences **27**:371:1b
Lazarus of Bethany, *or* Eleazar (bibl. fig.) **7**:211:3b
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laze rod (weaving): *see* lease rod
Lazear, Jesse William (U.S. physic.) 7:212:2b
collaboration with Reed **9**:991:3b
Lazio (reg., It.): *see* Latium **7**:212:2b
Lazowski. Yurek (dancer)
association with deMille *illus.* **4**:4
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structure and properties *table* **9**:396
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lazuri nena (lang.). *see* Laz language
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description 1:318:1b
Lazzarini, Gregorio (It. paint.)
influence on Tiepolo **11**:764:1a
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commedia dell'arte **28**:536:1b
dramatic literature 23:156:1a
LBM: *see* laser-beam machining
LC Classification (library sci.): *see* Library of Congress Classification
LCA (church, U.S.A.): *see* Lutheran Church in America
Lcang-skya quturtu Ngag-dbang blo-bzang chos-ldan (Mong. schol.)
contribution to Buddhist literature **15**:294:1b
Lcang-skya quturtu Rol-pa'i rdo-rje (Mong. schol.)
contribution to Buddhist literature **15**:294:1b, *illus.* 751
LCM (math.): *see* least common multiple
LCP (Austr pol. party): *see* Liberal–National Country Party
LCUSA (council of churches): *see* Lutheran Council in the United States of America
LD50 (pharm.): *see* median lethal dose
LD50/ED50 (pharm.): *see* median effective dose
LDC (sociol.): *see* developing nations
LDP (Japanese pol. party): *see* Liberal-Democratic Party
le (in proper names): *see* below and *see also* names spelled with no space after "le" (*e.g.*, LeMay, Curtis Emerson)

*"De," "la," "van," and similar components of a name, when followed by a space, are alphabetrzed as separate words (*e.g., *De Forest, Lee). When they are joined to the following part of a name, the combination is treated as a single word (e.g., DeForest, John William).*

Le BC, Guillaume (Fr. pnnt.)
creation of early Hebrew typeface **29**:1027:1a
Le Beau, C. (litho.)
portrait of Berlage *illus.* 2:135
Le Bel, Joseph-Achille (Fr. chem.) **7**:213:1a
discovery between molecular structure and chemical properties **24**:282:2a; **27**:40:2b
Le Blon, Jakob Christoph, *or* Jacques-Christophe Le Blond (Ger. art.) **7**:213:1b
contribution to printing **26**:74:1b
Le Blond, Alexandre-Jean-Baptiste (Fr. landscape designer) **7**:213:1b
Le Blond. Jean (Fr. paint.)
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Le Bon, Gustave (Fr. psychol.) **7**:213:2a
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Le Bossu. René (Fr. crit.)
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Le Bovier, Bernard (Fr. au. and sci.): *see* Fontenelle, Bernard Le Bovier, sieur de
Le Braz, Anatole (Fr. au.) **7**:213:2b
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"Philosophische Untersuchungen" (work by Wittgenstein): *see* "Philosophical Investigations"
"Philosophische Untersuchungen uber das Wesen der menschlichen Freiheit" (work by Schelling): *see* "Of Human Freedom"
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dicussed in biography **3:**39:3b
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Placodus (extinct reptile genus)
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    amphibolite facies **1:**351:3b
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  for a list of related subjects see PROPAEDIA: Section 214
Plagiolepis (zool.)
  method of honey storage **6:**35:2b
Plagiorchida (zool.)
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Plagiosauria (zool.)
  type of amphibian **13:**426:1b, *illus.* 424
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    fleas **21:**673:2a
    rodents **23:**446:1b
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    Middle Ages **23:**920:1a
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    determined by blood type in humans **18:**941:1b
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  for a list of related subjects see PROPAEDIA: Section 423
"Plague, The," *or* "La Peste" (novel by Camus)
  discussed in biography **2:**782:3b
  place in French literature **19:**581E:1b
plaice. *or* Pleuronectes platessa (fish) **9:**493:2a
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  discussed in biography **9:**879:3a
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  for lists of related subjects see PROPAEDIA: Sections 231: 354
Plain, The, *or* La Plaine (Fr. hist.) **9:**493:3b
plain chachalaca, *or* Ortalis vetula (bird)
  type of curassow **3:**797:3b
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  use of minuscule **29:**1015:1b, *illus.*
"Plain Man's Path-way to Heaven. The" (work by Dent)
  influence on Bunyan **2:**636:2b
plain nightjar, *or* Caprimulgus inornatus (bird)
  patterns of migration **14:**666:2b
Plain of. . . .. *or* Plains of. . . . : *see under* substantive word, *e.g.*, Abraham, Plains of
plain stitch, *or* flat stitch, *or* jersey stitch, *or* stockinette stitch (textiles) **9:**493:3b
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"Plain Tales From the Hills" (work by Kipling)
  discussed in biography **6:**883:2a
"Plain Truth; or, Serious Considerations on the Present State of the City of Philadelphia and Province of Pennsylvania" (work by Franklin)
  discussed in biography **19:**557:2a
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    Monteverdi **8:**286:3a
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Plaine, La (Fr. hist.): *see* Plain, The
"Plaine and Easie Introduction to Practicall Musicke, A" (work by Morley)
  discussed in biography **8:**327:3b
"Plaine Discovery of the Whole Revelation of Saint John" (work by Napier)
  discussed in biography **8:**507:1a
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  species of bluegrass **2:**301:3a
plains buffalo (zool.): *see* bison
Plains Cree (people)
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  species of foxtail **4:**914:2b
Plains Indian (people) 9494:1b
  major ref: in American Indians **13:**340:2a
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    Sun Dance **11:**388:3b
  scalping **10:**498:1a
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plains kit fox (zool.): *see* kit fox
plains love grass, *or* Eragrostis intermedia (grass)
  species of love grass **7:**516:2b
plains viscacha, *or* Lagostomus maximus (rodent)
  comparison with mountain viscacha **12:**394:1a
plains wanderer, *or* collared hemipode, *or* Pedionomus torquatus (bird) **9:**494:3a
  major ref: in Bird **15:**50:1b
plainsong (mus.): *see* plainchant
Plainsong and Mediaeval Music Society (Br. mus. org.)
  effect on Anglican chant **1:**406:3b
"Plainte au loin du faune. La" (work by Dukas)
  discussed in biography **4:**262:2a
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  burden of proof **26:**157:1b
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Plaisance (Nfd., Can.): *see* Placentia
Plaisancian Stage (paleon.): *see* Piacenzan Stage
Plaisians, Guillaume de (Fr. states.)
  association with Philip IV the Fair **9:**371:1b
"Plaisirs et les jours, Les" (work by Proust)
  discussed in biography **9:**746:1b
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  use in phase equilibria diagrams **23:**645:2b
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plaited stitch (knitting)
  method in weft knitting **21:**519:2a
plaiting (textiles): *see* braiding
Plaka (quarter. Athens, Gr.)
  description and location **14:**299:2b, *map* 298
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Plan XVII (Fr. hist.)
  miscalculations in World War I **21:**733:2b
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  discussed in biography **7:**813:3b
"Plan of the Scientific Operations Necessary for the Reorganization of Society" (work by Comte and Saint-Simon)
  development of political science **27:**401:2b
Plan for Chicago: *see* Burnham Plan
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  beliefs on public opinion **26:**355:2a
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  applications in
    meteorology **16:**567:1a
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  physiography of Angola **1:**411:2a
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planar fixed-point problem (math.)
  formulation in topology **19:**981:1a
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  major ref: in Combinatorics and Combinatorial Geometry **16:**680:2a
  application to puzzles **25:**8:2b, *illus.*
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  function in combinatorial methods **16:**681:1a
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    chemoreception 27:129:2a
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    mollusks **24:**309:2b
    Platyhelminthes **19:**292:2b, 297:2a, *illus.* 293, 295
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planato central (plat., Ang.)
  feature of Lunda Norte **7:**561:1b
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  statement **13:**537:2a
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  use in coinage **16:**582:2b
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    Planck's constant **14:**372:1a; 25679:1a; **25:**844:1a
    quantum theory **9:**405:1b; **18:**204:2a; **23:**2:2b; **25:**841:2a, 845:1b; **23:**876:2a
    radiation law **18:**301:1b; **23:**19:2a; **23:**737:2a; **27:**41:2a
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Planck's constant, *or* h (phys.) **9:**495:1b
  applications **25:**681:1b; **25:**843:1b *passim to* 845:2a
    action values **1:***71:3a*
    nuclear angular momentum **4:**749:1b; **14:**330:2b; **18:**446:1b; **25:**682:2a
    radiant energy **13:**568:1b; **14:**372:1a; **18:**301:1b; **23:**876:1a
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      photochemical processes **15:**1091:2a
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    black-body radiation **23:**737:2a
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  for a list of related subjects see PROPAEDIA: Section 127
Planctosphaeroidea (zool.)
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  analytic geometry **19:**945:2a
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  major ref. in Tools **28:**726:1a, *illus.* 725
  see also planer
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  formation in rivers **20:**11:2b
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  mapping and surveying **23:**533:1b
plane table
  use in surveying **23:**532:2b
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  for a list of related subjects see PROPAEDIA: Section 313
plane trigonometry
  major ref: in Trigonometry **28:**886:1b
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planet **9:**496:1a
  major ref: in The Solar System **27:**517:1b
  association with stars **28:**199:1b *passim to* 209:1a
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    comets **27:**581:1a
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      Copernicus **16:**815:1b
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for a list of related subjects see PROPAEDIA: Section 133
see also interplanetary exploration; and the planets by name
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for a list of related subjects see PROPAEDIA: Section 133
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Pacific Ocean climate **25:**183:1b
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Chamberlin's contribution **3:**67:1a
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"Planets, The" (work by Holst)
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discussed in biography **6:**17:1a
plange (acrobatic act)
performed by Lillian Leitzel **25:**300:2a
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species of marsupial mice **23:**400:1b
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for a list of related subjects see PROPAEDIA: Section 10/23
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"Planisphaerium" (work by Ptolemy)
discussed in biography **9:**775:3b
Planken, Franz van den (Flem. weaver): *see* La Planche, François de
plankton (marine biol.) **9:**497:1b
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lakes **17:**990:1a, 991:1a
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Pleistocene Epoch **19:**895:2b
patterns of migration **14:**663:1b
role in
aquatic ecosystem **17:**983:2a
marine food chain **19:**279:2b *passim to* 281:2b
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for a list of related subjects see PROPAEDIA: Section 354
see also phytoplankton; zooplankton; and types of plankton, *e.g.,* red tide
plankton net
use in collection of biological samples **19:**42:2b
planktonic bloom (marine biol.): *see* red tide
planning (administration)
importance in
business administration **13:**6:2b
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Planning Programming Budgeting System, *or* PPBS (econ.)
analysis in cost benefits of government programs **26:**336:1b
Plano culture (anthro.)
North American culture **13:**315:2a
planography (print.)
offset printing **8:**882:3b
planosol (pedology)
formation in soils **27:**496:2a, 499:2b, *tables* 500
Planquette, Jean-Robert (Fr. comp.) **9:**498:2a
"Plans, Elevations, Sections and Details of the Alhambra" (work by Jones)
discussed in biography **6:**609:2b
plant (bot.) **9:**498:2b
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agriculture
breeding: *see* plant breeding
caused by
beetles **21:**652:2b
boron deficiency **15:**974:2a
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thrips **21:**619:1b
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domestication **4:**163:1b
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beets **19:**156:1b
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houseplants **19:**680:2b
Iridales **13:**800:2a
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parasitic mistletoe **13:**768:1b
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agricultural sciences **13:**181:1a
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forestry **19:**412:1a
horticulture **19:**681:2b
distribution
desert climates **17:**1024:1a *passim to* 1025:2b
dispersal **14:**994:1b
energy intake and periodicity
biological rhythms **14:**638:1a
genetic expression **14:**953:2a
photoperiodism **14:**643:2a
photosynthesis **25:**808:1a
solar energy **2:**226:2a
evolution **14:**957:2b
Lower Carboniferous Period **19:**859:2a
paleobotany **19:**812:2a
phylogeny **18:**1004:2a, *illus.* 1006
radiation caused mutations **14:**360:2b; **26:**509:1b
growth and development **20:**409:1b, 420:1b, 426:1b
aging process **1:**148:3a
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life cycle **7:**347:2a
nutrient needs **19:**102:2b
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Hinduism **20:**585:2a, 613:1a
Native American **13:**351:2b
phytomorphism **26:**644:1a, *illus.* Plate 2 fol. 642
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ritual forms **26:**872:1b, 882:1b
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Tylor's theory of folklore **19:**305:1a
paleobotany
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duricrust **4:**293:2b
paleogeography **9:**78:1b
systems
ecosystems **14:**960:1b; **17:**980:1b, *illus.* 981
aspection **17:**1007:2b
food chain **4:**869:2a
rain forests **17:**1032:1a
trophic level **11:**943:1a
excretory **19:**2:2b
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integumentary **21:**691:2b, *illus.* 692
reproductive
binary fission **26:**656:1b
breeding methods **19:**93:1a
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life cycles **26:**657:2a
regeneration **20:**416:2b
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tissues and fluids **28:**686:1b
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vitamin synthesis **14:**901:1b
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aquariums **1:**500:2a
garden and landscape **19:**672:1a
houseplants **19:**678:1b
paper **21:**323:2a
protein source **14:**871:1b
weather's effects **16:**573:1b
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for a list of related subjects see PROPAEDIA: Section 336
see also under phyla, orders, families, genera, and species of plants, *e.g.,* angiosperm; magnolia
Plant, Henry B. (U.S. indus.)
contribution to Tampa **11:**532:3b
role in history of Florida **29:**326:2b
plant breeding **9:**498:3a
major ref. in Farming and Agricultural Technology **19:**93:1a
domestication **4:**163:1b
genetic considerations **19:**726:1b
methods of reproduction **26:**662:1a
cereal hybridization **19:**123:1b
disease resistant plants **17:**364:1a
double-flowered plants **13:**790:2b
sugar cultivation **19:**155:1b
technology in
agriculture **13:**182:2a
forestry **19:**410:1b
gardening **19:**673:2a
horticulture **19:**681:2b, 687:1b
for lists of related subjects see PROPAEDIA: Sections 337; 355
plant bug (insect) **9:**499:1a
species of Heteroptera **21:**628:2a, *illus.*
for a list of related subjects see PROPAEDIA: Section 313
plant disease (sci.)
major ref. in Disease **17:**349:1a
agricultural advances **13:**182:2a
influence on plant development **17:**314:1a *passim to* 317:2b
"Plant-Geography upon a Physiological Basis," *or* "Pflanzen-Geographie auf physiologischer Grundlage" (book by Schimper)
discussed in biography **10:**518:2a
plant hair: *see* trichome
plant hopper, *or* fulgorid (insect) **9:**499:2a
description **21:**621:1a, *illus.*
plant louse (insect): *see* aphid
Plant Protection Bulletin (UN)
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Plant Research Institute of Agriculture Canada, *or* Canada Department of Agriculture
research at Dominion Arboretum and Botanic Garden, Central Experimental Farm **4:**168:2a
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for a list of related subjects see PROPAEDIA: Section 313
Planta, Pompeius (Sp. pol.)
assassination by Jenatsch **6:**529:2a
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place in phylogeny **18:**1004:2a, 1005:2a
relation to protist **9:**741:3a
Plantagenet, Edmund, 1st earl of Kent (Eng. noble): *see* Kent, Edmund, 1st earl of
Plantagenet, George, duke of Clarence (Eng. noble): *see* Clarence, George Plantagenet, duke of
Plantagenet, House of, *or* House of Anjou, *or* Angevin Dynasty (royal house of Eng.) **9:**499:2b
English history **29:**36:1a
French history **19:**460:2a
Anjou origins **19:**525:1b
relations with
Louis IX **7:**496:2b
Louis XI **7:**498:3a
Philip II Augustus **9:**369:1a
see also Anjou, House of; Angevin Empire; and specific members by name, *e.g.,* Henry II (of England)
Plantagenet, John, duke of Bedford (Eng. states.): *see* Bedford, John Plantagenet, duke of
Plantagenet, Richard, Duke of Gloucester (k. of Eng.): *see* Richard III
Plantagenet, Richard, 3rd duke of York (Eng. noble): *see* York, Richard, 3rd duke of
Plantagenet, Thomas, duke of Clarence (Eng. noble): *see* Clarence, Thomas Plantagenet, duke of
Plantago (plant genus) **9:**499:3b
Plantago lanceolata (plant): *see* ribwort
Plantago major (bot.): *see* greater plantain
Plantago media (bot.): *see* hoary plantain
Plantago ovata (bot.)
description **9:**501:3a
Plantago psyllium (bot.)
description **9:**501:3a
plantain, *or* Musa paradisiaca (bot.) **9:**501:3a
relation to
bananas **1:**856:1b
Musaceae **8:**437:1b
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"Psychoanalysis of the Total Personality, The," *or* "Psychoanalyse der Gesamtpersonlichkeit" (work by Alexander)
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"Psychologie der Weltanschauungen" (work by Jaspers)
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"Psychologie des Foules, La" (work by LeBon): *see* "Crowd, The"
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"Psychology of Art, The," *or* "Psychologie de l'art" (work by Malraux)
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"Republic, The," *or* "Politeia" (dialogue by Plato)
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social movement **10**:922:1b
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see also specific movements by name. *e.g.,* Civil Rights Movement; peace movement; women's liberation movement
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"Social Organization" (work by Cooley)
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see also behavioral science; individual disciplines, *e.g.,* anthropology: economics: political science; social geography: social statistics; sociology: and social scientists by name. *e.g.,* Durkheim, Émile; Mill, John Stuart
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"Social Sources of Denominationalism, The" (work by Niebuhr)
sociological influences on religion **26**:541:2b
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"Social Statics" (work by Spencer)
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indication by jewelry **17**:471:1b *passim to* 487:2a
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Californian Native American society **13**:328:1b
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"Social Teachings of the Christian Churches. The," *or* "Soziallehren der Christlichen Kirchen und Gruppen" (work by Troeltsch)
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Chabrias **3**:48:3b
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see also Communism; Marxism; social democracy; and socialist thinkers by name
"Socialism and Political Struggle" (work by Plekhanov)
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Socialism in one country (Stalinist doctrine)
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Socialist Education Movement (Chin. hist.)
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"Socialist High Tide" (work by Mao Tse-tung)
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Socialist International, *or* SI (1951, Eur. hist.) **10:**926:3a
Socialist Labor Party. *or* SLP (pol. party, U.S.)
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Socialist Labour Party of Germany, *or* Sozialistische Arbeiterpartei Deutschlands (Ger. pol. party)
role of Liebknecht **7:**342:3a
Socialist law: *see* Soviet law
Socialist party (pol.)
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Socialist Party (pol. party, Arg.)
role in Argentina **14:**54:2a
Socialist Party (pol. party, Chil.)
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Socialist Party, *or* French Section of the Workers' International, *or* Parti Socialiste, *or* Section Française de l'Internationale Ouvrière, *or* SFIO (pol. yarty, Fr.) **10:**926:3b
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Juarès **6:**512:2b
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Socialist Party (pol. party. Sp.)
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Socialist Party, *or* Socialist Democratic Party (pol. party, U.S.)
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Socialist Party of Austria, *or* Sozialistische Partei Osterreichs (pol. party, Aus.)
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Socialist Party of Italian Workers. *or* PSLI (pol. party, It.)
formation by Saragat **10:**445:3b
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Socialist Party of Prolerarian Unity, *or* PSIUP (pol. party, It.)
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Socialist People's Party, *or* Partido Popular Socialista, *or* PPS (pol. party, Mex.)
place in Mexican politics **24:**36:1b
Socialist Realism (art) **10:**927:2a
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Gorky **5:**375:3b
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Socialist Republic of . . . : *see under* substantive, *e.g.,* Romania, except as below
Socialist Republic of Bavaria (Ger. hist.)
role in World War I **21:**752:2b
Socialist Revolutionary Party, *or* Sotsialisty Revolyutsionery, *or* SR (Russ. pol. party) **10:**927:2b
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Socialist Trade and Labor Alliance. *or* STLA (U.S. pol. org.)
establishment by De Leon **3:**933:1b
Socialist Unity Party of Germany. *or* Sozialistische Einheitspartei Deutschlands, *or* SED (pol.
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Socialist Workers' Federation (pol. org., Fr.)
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Sociedad Popular Restauradora (Am. pol. org.)
support of Juan Rosas **7:**982:1b
sociedades anónimas (Chil. business groups)
role in Chile's economy **16:**25:1a
Societh dei Pugni (It. intellectual group): *see* Pugni, Societh dei
Societh Nazionale di Musica (It. mus. soc.)
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Société, Iles de (archip., Fr. Poly.): *see* Society Islands
Société Anonyme Belge d'Exploitation de la Navigation Aérienne (Belg. airline): *see* SABENA
Société Asiatique (Fr. org.)
association with Ray **9:**962:3b
Société d', de, du, des . . . . : *see under* substantive word, *e.g.,* Artistes Indépendants, Société des except as below
Société Générale (Belg. co.)
Belgian economy **2:**62:1a
Société Générale (Fr. bank) **10:**927:3a
Société Liégeoise de Litttrature Wallonne (Belg. lit. group)
Belgian literature development **2:**60:3b; **14:**728:1a
Société Minière de Mauritanie, *or* Somima (Af. company)
development of Mauritania's economy **29:**895:2b
Société Nationale des Chemins de Fer Français, *or* French National Railway, *or* SNCF (Fr. railway system) **10:**927:3b
advancement of urban transporation **28:**805:2b
Société pour la Mise en Valeur Agricole de la Corse: *see* Somivac
Société Radio-Canada: *see* Canadian Broadcasting Corporation
Société Togolaise de Marbres et de Materiaux, *or* Sotoma (co.)
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ontological status **24:**8:1a
role of culture **16:**926:2b
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Bergson **2:**130:3a
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Vico **12:**347:2b
see also culture: social change; social class; social control; social differentiation; social group; social mobility; social movement; social status; social stratification; social structure; social units, *e.g.,* family; kinship; types of society, *e.g.,* hunting and gathering society; mass society; rural society; aspects of social development, *e.g.,* modernization; urbanization: social functions and institutions, *e.g.,* business organization; education; government; international relations; law; production; and regions, countries, and peoples by name
"Society" (play by Robertson)
production by Bancroh **1:**858:1b
Society for. . . . : *see under* substantive word. *e.g.,* Propagation of the Faith, Society for the
Society Hill (dist., Philadelphia, Pa., U.S.)
architectural restoration **14:**86:2a
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Society Islands, *or* Iles de Société (archip., Fr. Poly.) **10:**927:3b
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Westernization of music **25:**114:2a
Society of . . . . : *see under* substantive word, *e.g.,* Cincinnati, Society of the
Society on the Advancement of Judaism (org., N.Y.C.): *see* Advancement of Judaism. Society on the
Socijalisticka Federativna Republika Jugoslavija, *or* Socijalisticna Federativna Reoublika Jugoslavija: *see* Yugoslavia
Socijalisticki Savez Radnog Naroda Jugoslavije (pol. party, Yugos.): *see* Socialist Alliance of the Working People of Yugoslavia
Socinian (rel. group) **10:**928:1a
description of Geneva clergyman 26:1005:1b
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Socinus. Faustus, *or* Fausto Paolo Socini, *or* Fausto Paolo Sozini, *or* Fausto Paolo Sozzini (theol.) **10:**928:1a
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Socinus, Laelius, *or* Lelio Francesco Maria Socini, *or* Lelio Francesco Maria Sozini, *or* Lelio Francesco Maria Sozzini (Fr. theol.) **10:**928:2b
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"Sociobiology: The New Synthesis" (work by Wilson)
contribution to ethics **18:**647:1b
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sociocracy (soc. theory)
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Western philosophy of law **25:**727:2a

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major ref in Social Sciences **27**:380:1b
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collective behaviour **16**:607:1b
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explanation of prayer **26**:828:1a
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naturalist Positivism **25**:640:1a; **26**:555:1a
social aspects **26**:538:1b *passim to* 547:1b
political science development **27**:401:2b
rural sociology **13**:183:2b
see also criminology; demography: human geography; penology; social psychology, *and under* individual sociologists, specific sociological methods, techniques. and terms, *e.g.,* case study: collective behaviour; sociometry
"Sociology Looks at Religion" (work by Yinger)
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"Sociology of Religion" (work by Wach)
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Socrates, *or* Socrates Scholasticus (Byz. hist.) **10**:929:3b
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Socrates (Gr. philos.) **27**:484:1b; **10**:929:3b
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gasoline engines **18**:478:1a *passrm to* 482:1b, *illus.* 481; **28**:778:1a
pneumatic devices **9**:533:3b
rockets and missile systems **18**:492:1b
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valve (mus.) **12**:252:2b
brass instruments **24**:508:2b, 541:1b
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wind instruments **24**:688:1a
valve lifter (engine)
gasoline engines **18**:482:1b, *illus.* 481
Valverde (prov., Dom. Rep.) **12**:252:3a
Valverde (Dom.Rep.): *see* Mao
valvulotomy (med.)
heart surgery procedure **23**:909:2a
Vamacara (Tantrist sect)
Hindu Tantrism **20**:604:1a
Vamana (Hindu myth.) **12**:252:3a
vampire (folk leg.) **12**:253:1a
place in ancient Slavic religious belief **18**:911:1b
vampire bat, *or* Desmodus rotundus (zool.) **12**:253:1b
carrying of Infectious animal diseases **23**:414:1a, *illus.* 413
for a list of related subjects see PROPAEDIA: Section 313
Vampyromorpha (cephalopod order)
characteristics **24**:331:2a
Vampyrum spectrum (bat)
size and wingspread **23**:413:2a, *illus.*
"Vamsa Bhaskara" (work by Suryamal Misrama)
place in Rajasthani literature **27**:737:1a
van (in proper names): *see* below and *see also* names spelled with no space after "van" (*e.g.,* Vanbrugh. Sir John). *see also under* substantive part of name (*e.g.*, Leeuwenhoek. Antonie van)

*"De," "la," "van," and similar components of a name, when followed by a space, are alphabetized as separate words (*e.g., *De Forest, Lee]. When they are joined to the following part of a name, the combination is treated as a single word (*e.g., *DeForest, John William).*

Van (prov., Tur.)
major ref in Van **12**:253:2b
Van (Tur.) **12**:253:2a
Van, Lake, *or* Van Golu. *or* Thospitis Lacus, *or* Arsissa Lacus (l., Tur.) **12**:253:3a
example of lava encircled lakes in Asia **14**:175:1b
history of Armenian speaking peoples **22**:683:2b
physiography of Turkey **28**:891:2a
Van Allen, James Alfred (U.S. phys.) **12**:253:3b
study of radiation belts **14**:326:1a
Van Allen radiation belt **12**:254:1a
major ref: in Atmosphere **14**:326:1a
atmospheric sciences **17**:586:1a
auroral displays 14325:1b, *illus.* 326
cosmic ray research **16**:841:1b
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Van Allen's role **12**:253:3b
magnetic fields **17**:542:2b
for a list of related subjects see PROPAEDIA: Section 221
Van Alstyne, Fanny (U.S. hymn writ.): *see* Crosby, Fanny
Van Amburgh, Isaac A. (U.S. circus manager)
role in circus history **25**:299:2b
Van Biesbroeck, G. (U.S. astron.)
discovery of faintest star **28**:201:1b
Van Breda, H. L. (philos.)
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Van Buren (Ark., U.S.) **12**:254:2a
Van Buren, Martin (pres. of U.S.) **12**:254:2a
association with Jackson **6**:456:2a
Eaton's influence **4**:340:2a
role in Free Soil Party **4**:964:3a
Van Cleef & Arpels (jewelry firm)
significance in jewelry making **17**:481:2b
Van Cortland, Stephanus (mayor of New York City) **12**:254:3b
Van de Graaff, Robert Jemison (U.S. phys. and inv.) **12**:255:1a
development of particle accelerators **25**:445:1a
Van de Graaff generator
major ref in Particle Accelerators **25**:446:1a, *illus.*
development by Van de Graaff **12**:255:1a
source of electromotive force **18**:227:2a
van de Velde (surname): *see under* Velde, *e.g.,* Velde, Adriaen van de
Van Deman, Esther Boise (U.S. archae.) **12**:255:1b
Van Deman, Ralph Henry (U.S. gen.) **12**:255:2a

"Van den vos Reinaerde" (work by Willem)
discussed in biography **12**:665:3a
early Dutch literature **17**:529:2b
Van Depoele, Charles Joseph (U.S. inv.) **12**:255:3a
van der . . . . : *see under* substantive word, *e.g.,* Weyden, Rogier van der, except as below
van der Hoeve syndrome (path.)
symptoms **8**:1034:1a
Van der Kloof irrigation canals (canals, S.Af.)
development projects on Orange River **13**:127:2b
Van der Noot, Jan Babtista (Du. poet)
Dutch literature of the Renaissance **17**:530:1b
Van der Pol's equation, *or* Van der Pol's differential equation (math.)
major ref. in Analysis in Mathematics **13**:500:1b
application of differential equations **13**:478:1b
van der Spriet, Jan (paint.)
portrait of Mather *illus.* **7**:933
van der Waals forces (chem.) **12**:255:3a
chemical requirements for life **22**:997:1a
composition of matter **14**:340:1b
occurrence in
chemical bonding in solids **23**:647:1b
gases **23**:697:2b
inorganic compounds **15**:769:1b
minerals **24**:127:2b, *illus.* 129
type of chemical bonding **24**:300:2a
use in
atomic structure determination **14**:377:1a
thermodynamics **28**:622:1a
Van Devanter, Willis (U.S. Supreme Court justice) **12**:256:1a
van Diemen, Anthony (Du. colonial administrator): *see* Diemen, Anthony van
Van Diemen Gulf (gulf, Austr.) **12**:256:1a
Van Diemen's Land (hist. colony, Tas., Austr.) **12**:256:1b
governed by Arthur **1**:603:2a
history of Tasmania **14**:460:1b
Van Diemen's Land Folk Museum (Tas., Austr.)
place in cultural life of Tasmania **14**:463:2a
Van Doren, Carl Clinton (U.S. crit.) **12**:256:2a
Van Doren, Mark (U.S. writ.) **12**:256:3a
Van Dyck, Sir Anthony, *or* Anthonie Vandyke (Flem. paint.) **12**:256:3b
contributions to
Baroque art **25**:355:1b
Stuart style **11**:330:2a
history of printmaking **26**:124:2b
influence on
Gainsborough **5**:76:2a
Reynolds **10**:13:2b
portrait of
Bristol, 2nd Earl of *illus.* **2**:525
Buckingham, 1st Duke of *illus.* **2**:599
Charles I **3**:112:1b, *illus.*
Hamilton, 1st Duke of *illus.* **5**:659
Henderson *illus.* **5**:829
Wallenstein *illus.* **12**:470
Wentworth, Sir Thomas **11**:298
Rubens' influence **4**:829:1b
Van Dyke, Henry (U.S. writ.) **12**:258:2b
van Gogh, Vincent (Du. paint.): *see* Gogh, Vincent van
Van Golu (l., Tur.): *see* Van, Lake
Van Hise, Charles Richard (U.S. geol.) **12**:258:2b
Van Horne, Sir William Cornelius (Can. ry. exec.) **12**:258:3a
van Laer, Pieter (Du. art.)
contribution to Bambocciati style **1**:853:2b
influence on Both **2**:409:3b
Van Lang (legendary Viet. kingdom)
founding by Hung Vuong **6**:152:2b
legendary and earliest recorded history of Vietnam **27**:855:1a
Van Loo, Charles-André, *or* Carle Vanloo (Fr. paint.) **12**:258:3a
Van Loo, Louis-Michel (Fr. paint.)
portrait of duc de Choiseul *illus.* **3**:257
van Nelle tobacco factory (bldg., Rotterdam, Neth.)
design by Johannes Brinkman **2**:521:1b
"Van Nu en Straks" (Flem. period.)
contribution by Cyriel Buysse **2**:691:1b
development in Flemish literature **2**:60:3a; **14**:726:1a;
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Van Nu en Straks circle (lit.) **12**:258:3b
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"Van oude menschen, de dingen die voorbijgaan" (work by Couperus): *see* "Old People and the Things That Pass"
van Praagh, Peggy (Austr. ballet dir.)
contribution to Australian Ballet **1**:715:2b
Van Risen Burgh, Bernard, II (Fr. cabinetmaker): *see* Risenburgh, Bernard van, II
Van Staudt-Clausen theorem (math.)
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Van Valkenbough, Peter (U.S. artist)
sketch of H.E. Bolton *illus.* **2**:346
Van Vechten, Carl (U.S. writ.) **12**:258:3b
Van Vleck, John Hasbrouck (U.S. phys.) **12**:259:1a
formulation of ligand field theory **7**:349:1b
Van Volkenburg, Ellen (U.S. puppeteer)
contribution to development of puppetry **25**:1035:1b
Van Wagener, Isabella (U.S. reformer): *see* Truth, Sojourner
vanadate mineral **12**:259:2a
major ref. in Minerals and Rocks **24**:136:1b
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vanadinite (min.) **12**:259:2b
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vanadocyte (zool.)
role in pigmentation **16**:652:1b
vanaprastha (Hinduism)
hermit stage in ashram **1**:627:2b
Vanbrugh, Sir John (Br. dram. and arch.) **12**:260:1b
contribution to
English literature of the 17th century **18**:582:2a
interior design development **17**:33:1a
example of self-taught artist **14**:111:1b
precursor to Gothic Revival **13**:1031:1a
Vance, Cyrus (U.S. pub. offi.) **12**:260:3a
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Vance, Zebulon Baird (N.C. gov. and sen.) **12**:260:3b
Vanchsky range (mts., U.S.S.R.)
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Vancouver (B.C., Can.) **12**:261:1a
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Vancouver (Wash., U.S.) **12**:261:2a
Vancouver, George (Br. expl.) **12**:261:2b
exploration of British Columbia **15**:544:2b
role in history of
Australia **14**:429:2a
French Polynesia **25**:283:1b
Vancouver Island (isl., B.C., Can.) **12**:261:3b
significance in history of British Columbia **15**:544:2b
Vancouver Public Aquarium (aquarium, Vancouver, B.C., Can.) **12**:262:1b
Vancouver Railroad Tunnel (Can.)
innovations in tunnel construction **26**:447:1b
Vancura, Valdislav (Czech. writ.)
contribution to Czech literature **16**:953:2b
Vanda (bot.) **12**:262:1b
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Vanda (Fin.): *see* Vantaa
Vanda, Lake (l., Antarc.)
physiography of Antarctica *illus.* **13**:847
Vanda coerulea (bot.)
description **12**:262:2a
Vanda sanderiana (bot.)
description **12**:262:1b
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description **12**:262:2a
Vandal (Germanic people) **12**:262:2a
major ref. in Europe **18**:686:2b
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Gaiseric's leadership **5**:77:2b
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Corsica **19**:535:1b
Italy **22**:185:1b
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Justinian I's policy in North Africa **6**:664:1a
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Europe **18**:695:1a
Greco-Roman civilization **20**:342:2b *passim to* 359:1b, *maps* 320, 355
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Vandalia (Ill., U.S.) **12**:262:2b
Vandalia Colony (U.S. hist.)
history of West Virginia **29**:358:2a
Washington's interest in Western lands **29**:719:2a
Vandamme, Dominique-René, comte d'Unebourg (Fr. gen.) **12**:262:2b
Vandegrift, Alexander Archer (U.S. of.) **12**:262:3a
Vandellia cirrhosa (fish): *see* candiru
Vandenberg, Arthur Hendrick (U.S. sen.) **12**:262:3b
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Vanderbank, John (paint.)
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Vanderbijlpark (S.Af.) **12**:263:1a
Vanderbilt, Amy (U.S. au. and journ.) **12**:263:2a
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Vanderbilt, Cornelius (U.S. indus. and philan.) **12**:263:2b
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opposition by Walker in Nicaragua **4**:777:1a
Vanderbilt, George Washington (U.S. sci.)
major ref. in Vanderbilt Family **12**:263:1b
Vanderbilt, Harold Stirling (U.S. indus. and inv.)
major ref. in Vanderbilt family **12**:263:2a
establishment of Contract Bridge **3**:588:1a
Vanderbilt, William Henry (U.S. indus. and philan.) **12**:263:3b
Vanderbilt, William Kissam (U.S. indus.)
major ref. in Vanderbilt Family **12**:263:1b
Vanderbilt Cup race (automobile racing)
significance in automobile racing **1**:729:1a
Vanderbilt Family (U.S. family) **12**:263:1b
Vanderbilt Road (road, Nic.)
transportation system of Lake Nicaragua **8**:677:1b
Vanderbilt University (Univ., Nashville-Davidson, Tenn., U.S.)
location **29**:351:1b
Vanderlyn, John (U.S. paint.) **12**:264:1a
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Vandermeersch, Bernard (Fr. sci.)
association with excavation of kafzeh **6**:679:3b
Vandervelde, Emile (Belg. states.) **12**:264:1b
Vandiver, Ernest (Ga. gov.)
role in Georgia politics **29**:331:1b
Vandyke, Anthonie (Flem. paint.): *see* Van Dyck, Sir Anthony
Vandyke beard
popularity in 19th century **17**:458:2a
Vandyke collar (fashion)
popularity in 17th-century Europe **17**:453:1b
use of needle lace
Genoese **5**:183:2b
Venetian **12**:303:2a
vane (anat.)
part of feather **4**:708:2b
Vane, Sir Henry, the Elder (Eng. states.) **12**:264:2b
Vane, Sir Henry, the Younger (Eng. administrator) **12**:264:3a
role in English history **29**:60:2a, 63:2b
Vane, John Robert (Br. biochem.) **12**:264:3b
association with Samuelsson **10**:382:3b
Vane, Sutton (Br. writ.) **12**:265:1a
vane pump
design **9**:797:2b, *illus.*
Vanellus vanellus (lapwing)
description **7**:160:2b
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Vanern (l., Swed.) **12**:265:1b
description and location **28**:332:2b
Vanessa (butterfly genus)
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"Vanessa" (opera by Barber)
American opera **24**:639:1a
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Vanessa atalanta (butterfly): *see* red admiral
Vanessa cardui (insect): *see* painted lady
Vanga (hist. reg., India): *see* Bengal
Vanga, kingdom of, *or* kingdom of Banga (anc. king., India)
history of West Bengal **21**:140:2b
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vanga-shrike, *or* Vanga (bird) **12**:265:1b
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"Vangelo secondo Matteo, Il" (film by Pasolini): *see* "Gospel According to Saint Matthew, The"
Vanguard (launch vehicle)
description **19:**48:1a
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use of Vanguard launch vehicle **19:**48:1b
Vanguard literature
major ref. in Latin American literature **22:**846:1b
vanguard of the proletariat (communism)
view of Lenin **22:**948:2a
"Vanguardia, La," *or* "The Vanguard" (Mex. news.)
contribution by Orozco **8:**1011:2a
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Vanhouttei spirea (shrub): *see* bridal wreath
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vanilla (flavouring agent)
derivation from orchid **8:**985:1a; **13:**806:1b
vanillin, *or* 4-hydroxy-3-methoxybenzaldehyde (biochem.)
aldehyde and ketone physical properties *table* 22 **15:**806
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development of semirigid airships **28:**832:2b
Vanimo (Pap.N.G.) **12:**265:3b
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relationship to
Freyr **5:**6:2b
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creation of Kvasir **7:**53:1a
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contribution to caricature **15:**578:2b
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"Vanity Fair" (novel by Thackeray)
discussed in biography **11:**666:3b
"Vanity of Dogmatizing, or Confidence in Opinions, The" (work by Glanvill)
discussed in biography **5:**295:1a
"Vanity of Human Wishes, The" (poem by Johnson)
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Vanivilasa Sagara Dam (dam, India)
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Vanloo, Carle (Fr. paint.): *see* Van Loo, Charles-André
Vanne Aqueduct (aqueduct, Paris, Fr.)
water supply system of Paris **26:**425:1b
Vannes (Fr.) **12:**266:2a
Vannic language (lang.): *see* Urartian language
Vannucci, Pietro di Cristoforo (It. paint.): *see* Perugino
Vanoise National Park, *or* Parc National de la Vanoise (park, Fr.) **12:**266:2b
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Vanolis, Bysshe (Br. poet): *see* Thomson, James
Vanrisemburgh, Bernard, II (Fr. cabinetmaker): *see* Risenburgh, Bernard van, II
Vansina, Jan (Belg.-U.S. schol.)
views on Lunda political structure **15:**649:1a
Vansittart, Henry (Br. gov. of Bengal)
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Vansittartism (Br. foreign policy)
development by Robert Gilbert Vansittart **12:**266:2b
van't Hoff, Jacobus Henricus (Du. chem.): *see* Hoff, Jacobus Henricus van't
van't Hoff equation
use in geochemistry **24:**148:1a
Vantaa, *or* Vanda (Fin.) **12:**266:3b
vanthoffite (min.)
member of evaporite mineral group **24:**242:2a, *table*
Vantongerloo, Georges (Fr. art.)
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Neoclassicism **13:**1027:1b
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Vanyume (N.Am. Indians)
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Vanzetti, Bartolomeo (U.S. defendant)
role in the Sacco-Vanzetti case **10:**285:1a
Vap (Fascist movement)
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Vapam (chem. compound): *see* sodium methyldithiocarbamate
Vapheio, *or* Vaphio (anc. site, Gr.) **12:**268:1b
site of Mycenaean metalwork excavation **17:**151:2b
vapor (phys. sci.): *see under* vapour
vaporization, *or* evaporation (chem.) **12:**268:1b
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heat pipe **5:**786:2b
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liquid particles **23:**681:1b
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vaporus (line)
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atmospheric sciences **17:**607:2b
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alkali metals **15:**960:1b, *illus.*
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use in thermometry **23:**738:2a
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Vaptsarov, Nikola (Bulg. writ.)
contribution to 20th-century Bulgarian literature **2:**622:1b
Vaqueiras, Raimbautz de, *or* Raimbaut de Vaqeyras (Provençal poet)
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varactor diode, *or* variable reactor (elec.)
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Varahamihira, *or* Varaha, *or* Mihira (Ind. philos.) **12:**269:1b
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place in Saptamatrka hierarchy **10:**444:1b
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Varakari Panth (Brahmin sect)
contribution by Namdev **8:**493:3a
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Varbergian Stage (geol.)
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Varda, Agnès (Fr. phot. and dir.) **12:**269:3a
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Vardanes (k. of Parthia)
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