

**SCIENCE AND TECHNOLOGY IN GENERAL REFERENCE AND OTHER UNITS**  
**AT THE MID-MANHATTAN LIBRARY**

*The New York Public Library, Mid-Manhattan Library, General Reference Service,  
455 Fifth Avenue, New York, New York 10016*

**ORIENTATION**

General Reference Service (GR), located on the second floor, offers a selection of basic reference materials in the Natural Sciences and Mathematics (500's) and Technology (Applied Sciences, 600's), as well as a few related titles on Internet/Computers (several class numbers, GR Wall Stacks) and the Environment (333's and 363's). GR is open Monday-Saturday. Questions about our resources or whether a particular title is on the shelf? Please call (212) 340-0863.

A separate Health Information Center is also on the 2nd floor, offering reference and/or circulating materials on consumer health (610-619), healthful cookery (641.5), parenting of infants (649.1), veterinary medicine/pet healthcare (636.089-636.7's), and test preparation (medical, nursing, allied health, veterinary only). [For mental health, consult catalog since many items are in History and Social Sciences, 5<sup>th</sup> floor, especially psychology.] Science education materials in the Education Collection and science career resources in the Job Information Center are both on the 2<sup>nd</sup> floor.

The Popular Library, on the first floor, has a small selection of circulating books on Computers (004-005's), although most such books are at the Science and Business Library (see below) and on Applied Sciences such as: Gardening (635's), Pets (636's), Cookery and Entertaining (641-642's), Sewing (646) and Parenting (649.1's). There are a few sources in other, related areas but most of the 620's, 660-690's or Car Repair, Airplanes and Flight, Metal-work (except for Art titles), and Home Repair and Renovation, have been relocated to the Science and Business Library. Reference and circulating materials on Ecology and the Environment classified in the 300's may be found in the History and Social Sciences Department. Many art and collectible-related titles in the 600's can be found in the Art Collection on the third floor.

Please be sure to check the LEO catalog of The Branch Libraries for the specific locations of circulating materials and the LEO and CATNYP (Research Libraries) catalogs for reference ones; these online catalogs are available at [www.nypl.org](http://www.nypl.org) and on terminals at any library location.

In general, the Science, Industry and Business Library (SIBL), at 188 Madison Avenue, has the largest collection of circulating and reference materials in the non-medical sciences. The Humanities and Social Sciences Library, General Research Division (GRD), Rm. 315 at Fifth Avenue and 42<sup>nd</sup> Street, does have reference books on culinary history [See their "Culinary History" research guide] and natural history, including botany, horticulture, zoology, [See their "Natural History" research guide] and various aspects of conservation and ecology, while SIBL has agriculture, forestry, and aquaculture.

For selected science web sites, start with the Library's homepage at [www.nypl.org](http://www.nypl.org) by choosing <Search the Internet>, then <Computers & the Internet> or <Science & Technology>. <General Science> has "Free Online Books and Journals," "Museums and Zoos," and "Projects/Fairs/Tutorials." If you have a question, you may call Telephone Reference Service at (212) 340-0849 (M-Sat., 9-6), SIBL's telephone reference at (212) 592-7000, (Tues-Sat., 10- 5), or GRD's telephone reference, 930-0830, (Tues.-Sat., opening to 5 P.M.), as appropriate. You may choose to e-mail questions to "Ask Librarians Online," at <http://ask.nypl.org>, complete the SIBL E-reference form at [www.nypl.org/research/sibl/eforms/eref/equest2.htm](http://www.nypl.org/research/sibl/eforms/eref/equest2.htm) or e-mail the General Research Division at [grdref@nypl.org](mailto:grdref@nypl.org).

The following is a tour of highlights in GR's science and technology reference collection. It is divided into sections on general science; collective biography; computer, natural science and math topics; environmental science (encompassing several class numbers); and applied science topics.

## GENERAL SCIENCE INFORMATION

### Encyclopedias

Articles on scientific topics may be found in general encyclopedias and their yearbooks such as: *The Encyclopedia Americana*, *The New Encyclopaedia Britannica*, and *The World Book*. All available on GR Wall Stacks near information desk.

Online: *World Book Online* (grades 5-12) is also available at any branch or from home as an *E-Resource* ([www.nypl.org/branch/eresources.html](http://www.nypl.org/branch/eresources.html)), as is *Encyclopaedia Britannica* and, as part of *EBSCOhost*, *Funk & Wagnall's New World Encyclopedia* (grades 5-8). *Encyclopedia Americana* is available at library branches only.

The following general science encyclopedias may be found on GR Wall Stacks:

*McGraw-Hill Encyclopedia of Science & Technology*. 8<sup>th</sup> ed. 20v. New York: McGraw-Hill, c1997. Also: Yearbooks.

*The Gale Encyclopedia of Science*. 2d ed. 6v. Detroit, MI: Gale Group, c2001.

*The New Book of Popular Science*. 6v. Danbury, CT: Grolier, c2000. Each volume covers different areas of the sciences.

*The World Book Encyclopedia of Science*. 8v. Chicago, Ill.: World Book, 1997, c2000.

Online: *The New Book of Popular Science* is also available at any branch or from home as part of NYPL's *E-Resources*.

### Dictionaries and Abbreviations

*Academic Press Dictionary of Science and Technology*. San Diego, CA: Academic Press, c1992. (503-A)

*McGraw-Hill Dictionary of Scientific and Technical Terms*. 5<sup>th</sup> ed. New York: McGraw-Hill, 1994. (503.21-M)

*Ocran's Acronyms: A Dictionary of Abbreviations and Acronyms Used in Scientific and Technical Writing*. Ocran, Emanuel B. London; Boston: Routledge and K. Paul, c1978. (501.48-O)

[Two dual language science dictionaries: *Harrap's French and English Science Dictionary*, (503-H), *Japanese/English English/Japanese Glossary of Scientific & Technical Terms*, (503-T)]

### Bibliographic Resources

*Walford's Guide to Reference Material*. 7<sup>th</sup> ed. v. 1, Science and Technology. London: Library Association, c1996. (011.02-W)

*Information Sources in Science and Technology*, 3<sup>rd</sup> ed. Englewood, CO: Libraries Unlimited, c1998. (016.5-I)

*Encyclopedia of Physical Science and Engineering Information Sources*. 2d ed. Detroit, MI: Gale Research, 1997. (016.5-E)

*Information Sources in the Life Sciences*. 4<sup>th</sup> ed. London; Boston: Butterworths, 1997. (016.53-I)

*Guide to Information Sources in the Botanical Sciences*. 2<sup>nd</sup> ed. Davis, Elizabeth B. Englewood, CO: Libraries Unlimited, c1996. (016.58-D)

### Indexes:

The following printed indexes on the 2d floor allow you to find articles on scientific topics:

*General Science Index, 1978- . \*Scientific American Index, 1948-1988. Index Table.*

Online: *EBSCOhost*, an NYPL *E-Resource*, provides access to articles in general and specialized periodicals via *MasterFILE Premier*, *Academic Search Premier*, and other available databases. Many articles are available full-text and/or full image, as well. Otherwise, for articles in hard copy and microform formats, check LEO (for the Branch Libraries) and CATNYP (for Research Libraries' holdings, including SIBL's) to locate the periodical titles in which they are found.

### Periodicals:

General interest science journals are on the fourth floor:

<i>American Forests</i>	<i>Horticulture</i>
<i>American Gardener</i>	<i>Motor Boating &amp; Sailing</i>
<i>American Scientist</i>	<i>Motor Trend</i>
<i>Astronomy</i>	<i>National Wildlife - World Edition</i>
<i>Audio (ceased)</i>	<i>Natural History</i>
<i>Audubon</i>	<i>Nature</i>
<i>Aviation Week and Space Technology</i>	<i>OG</i>
<i>Bioscience</i>	<i>Organic Gardening</i>
<i>Bon Appetit</i>	<i>New Scientist</i>
<i>Bulletin of the Atomic Scientists</i>	<i>PC Magazine</i>
<i>Byte</i>	<i>PC World</i>
<i>Car and Driver</i>	<i>Physics Today</i>
<i>Climatological Data: New England</i>	<i>Poptronics</i>
<i>Climatological Data: New Jersey</i>	<i>Popular Mechanics</i>
<i>Climatological Data: New York</i>	<i>Popular Science</i>
<i>Computer Shopper</i>	<i>Road &amp; Track</i>
<i>Computerworld</i>	<i>Rodale's Organic Gardening</i>
<i>Discover</i>	<i>Science</i>
<i>EWeek</i>	<i>Science News</i>
<i>Environment</i>	<i>Scientific American*</i>
<i>Family Circle</i>	<i>Sky &amp; Telescope</i>
<i>Family Handyman</i>	<i>Successful Farming</i>
<i>Farm Journal</i>	<i>Technology Review</i>
<i>Flying</i>	<i>Today's Homeowner</i>
<i>Gourmet</i>	<i>Weatherwise</i>
<i>Home Mechanix</i>	

For details of holdings and notations of self-indexing available with some titles, see the LEO Catalog.

### Directories

*World Guide to Scientific Associations and Learned Societies. 7<sup>th</sup> ed. Munchen, etc.: K. G. Saur, etc., 1998. (506-W)*

### Directories – Museums

*America's Science Museums.* Danilov, Victor J. New York: Greenwood Press, c1990. (507.473-D)

*Official Museum Directory.* Annual. Geographical with index by museum specialty; covers zoos, aquariums, botanical gardens, etc. GR Ready Reference.

Online: The Franklin Institute Online, Museums Hotlist -

[www.fi.edu/tfi/hotlists/museums.html](http://www.fi.edu/tfi/hotlists/museums.html)

### General Science News Online:

- Science News Online: [www.sciencenews.org](http://www.sciencenews.org)
- Science@NASA: [science.nasa.gov](http://science.nasa.gov)
- CNN.com Sci-Tech: [www.cnn.com/tech](http://www.cnn.com/tech)
- The New York Times: Science: [www.nytimes.com/pages/science](http://www.nytimes.com/pages/science)
- Yahoo! Science: [dailynews.yahoo.com/h/sc/](http://dailynews.yahoo.com/h/sc/) (includes daily news and links to full coverage on selected topics and further resources).

## COLLECTIVE BIOGRAPHY

### Nobel Prize Winners

*Nobel Prize Winners: An H.W. Wilson Biographical Dictionary.* New York: H.W. Wilson, c1987. (001.4409-N) Provides biographical information on winners by award, i. e. Chemistry, Physics, and Physiology or Medicine.

*Nobel Prize Winners Supplement 1987-1991: An H.W. Wilson Biographical Dictionary.* New York: H.W. Wilson, c1992. (001.4409-N)

*Nobel Prize Winners, 1992-1996 Supplement.* New York: H.W. Wilson Co., c1997. (001.4409-N)

*The Lady Laureates: Women Who Have Won the Nobel Prize.* 2<sup>nd</sup> ed. Opfel, Olga S. Metuchen, N.J.: Scarecrow Press, c1986. (001.44-O)

*Nobel Prize Women in Science: Their Lives, Struggles and Momentous Discoveries.* 2d ed. McGrayne, Sharon B. Secaucus, NJ: Carol Pub. Group, c1998. (509.22-M) Extensive biographical profiles with full-page portraits.

Lists of winners, from earliest to latest, appear in almanacs such as the *New York Times Almanac*, *World Almanac*, and *Time Almanac* (formerly *Information Please*). Latest editions are at Ready Reference; previous years are in the stacks in the 031's.

The Nobel Prize is awarded each year in October.

Online: Official Site of the Nobel Prize Foundation [www.nobel.se/](http://www.nobel.se/) Includes latest winners, lists of past winners, their biographical profiles and contributions to science.

### General: Retrospective

#### Major Work

*Dictionary of Scientific Biography.* 18v. in 8 New York: Scribner, c1990. (509.22-D). Published in 1980 under auspices of the American Council of Learned Societies. Major articles by distinguished contributors include extensive bibliographies. Alphabetical. v.15-18 includes Supps. I and II consisting of a detailed index and additional biographies.

*Asimov's Biographical Encyclopedia of Science and Technology: The Lives and Achievements of 1510 Great Scientists from Ancient Times to the Present Chronologically Arranged.* 2d Rev. ed. Asimov, Isaac. Garden City, NY: Doubleday, c1982. (509.22-A)

*The Scientific 100: A Ranking of the Most Influential Scientists, Past and Present.* Secaucus, NJ: Carol Pub. Group, c1996. (925-S)

*Scribner Science Reference Series.* Vol. 1, "Renaissance and the Scientific Revolution: Biographical Portraits." New York: Scribner, c2001. (509.22-S)

**General: Retrospective and/or Current**

**Major Work**

*Encyclopedia of World Scientists* Oakes, Elizabeth. New York: Facts on File, c2001. (509.22-O) Alphabetical plus searchable by scientific field, country of major activity, country, and year of birth. Covers deceased and living scientists and offers a chronology showing those who were contemporaries.

*Almanac of Famous People.* (Available at GR desk) Alphabetical plus searchable by occupation, profession. Brief, identifying information with citations to profiles in a range of biographical dictionaries.

*American Men and Women of Science.* 20<sup>th</sup> ed. New York: Bowker, c1998. (925-A)

*Current Biography.* 1940- . Alphabetical, plus searchable by occupation, profession. Annual volumes are behind Ready Reference shelves near GR desk; latest monthly issues at Periodicals on fourth floor. Comprehensive indexes issued periodically, i.e. 1940-1995; each subsequent annual has a cumulative index covering years since.

*Newsmakers.* Annual, 3 interim issues/year. Detroit: Gale Research. Alphabetical plus searchable by occupation, profession. Located on index tables, Fifth Avenue window area; GR has 1989- .

*Scribner Science Reference Series.* Vol. 2, "Life Sciences in the Twentieth Century: Biographical Portraits." New York: Scribner, c2001. (509.22-S)

*Who's Who in Science and Engineering* Annual. Wilmette, IL: Marquis Who's Who. (605-W) GR Ready Reference.

**Indexes**

*Biography and Genealogy Master Index.* Detroit, MI: Gale Research. GR Desk. By name only. Also available on LEO Express through NYPL *E-resource: Ancestry Plus.*

*Biography Index.* New York: Wilson, 1946- . Printed volumes on Index Table from 1946- and on CD-ROM from 1984- . Lists whole book biographies and indexes chapters in books and periodical articles for profiles of persons; also has lists of persons by occupation/profession, i.e. astronauts, mathematicians, molecular biologists, scientists, etc. Covers people from all eras.

*Index to Scientists of the World from Ancient to Modern Times: Biographies and Portraits.* Ireland, Norma O. Boston: F.W. Faxon Co., c1962. (016.925-I) Alphabetical index to over 7,475 scientists profiled in 338 works of collective biography. Also indexes portraits of scientists.

*Prominent Scientists: an Index to Collective Biographies.* 3d ed. Pelletier, Paul A. New York: Neal-Schuman, c1994. (016.925-P) Indexes collective biographies "from 1960 through 1992, since *Index to Scientists...*(see preceding) covers the period from the 1930's to 1960."

Online: *Biography Resource Center*, via NYPL's *E-Resources*. Not only an index, it offers printable, full-length biographical profiles from various Gale biographical dictionaries.

### African-Americans

*Black Scientists of America.* Donovan, Richard X. Portland, Or.: National Book Co., c1990. (925.0973-D) Extensive list of scientists showing only year of birth and field for each as well as several chapters discussing achievements of some major figures in a narrative format.

*Created Equal: The Lives of Black American Innovators.* Brodie, James M. New York: W. Morrow, c1993. (509.2273-B) Includes a lists of "Inventions, Modifications, and Patents."

*Distinguished African American Scientists of the 20<sup>th</sup> Century.* Kessler, James H. Phoenix, Ariz.: Oryx Press, c1996. (509.2273-D) One hundred scientists are profiled, each with a photo or drawing. Includes "Chronological List of Scientists" and "Scientists Arranged by Research Area."

*Notable Black American Scientists.* Detroit, MI: Gale, c1999. (925.0973-N) In addition to profiles with portraits, the following features are included: Timeline, Gender Index, and Field of Specialization Index.

### Applied Science

*Black Inventors: From Africa to America: Two Million Years of Innovation.* Gibbs, C.R. Silver Spring, MD: Three Dimensional Pub., c1995. (609.22-G)

*Distinguished African Americans in Aviation and Space Science.* Gubert, Betty Kaplan. Westport, Conn.: Oryx Press, c2002. (629.1309-G) Biographical profiles, each with b/w portrait, if available, and sources.

### Women

*The Biographical Dictionary of Women in Science: Pioneering Lives from Ancient Times to the Mid-Twentieth Century.* 2v. New York: Routledge, c2000. (509.22-B) Covers women scientists "...from Ancient Times to the Mid-20<sup>th</sup> Century." Profiles are arranged alphabetically and each is followed by a list of primary, secondary, and standard sources. Vol. 2 includes separate lists of scientists by occupation, time period, and country plus an index.

*Women Scientists from Antiquity to the Present: An Index...* Herzberg, Caroline. West Cornwall, CT: Locust Hill Press, c1986. (509.22-H) Indexes books and periodicals; offers references to some women scientists not profiled in *The Biographical Dictionary...* A section giving names by scientific occupation includes such categories as: science authors, educators, historians, social scientists, sociologists, statisticians, psychologists, psychiatrists, natural philosophers, archaeologists, the medical disciplines, and inventors.

*A to Z of Women in Science and Math.* Yount, Lisa. New York: Facts on File, c1999. (925-Y) Includes: "Entries by Field, Entries by Country of Birth, and Entries by Country of Major Scientific Activity."

*Notable Women in the Life Sciences: A Biographical Dictionary.* Westport, CT: Greenwood Press, c1996. (574.0922-N) Covers biologists, entomologists, pathologists, biochemists, physicians, physiologists, zoologists, etc. Appendixes include "Scientists by Field" and "Scientists by Awards Received."

*Notable Women in the Physical Sciences: A Biographical Dictionary.* Westport, Conn.: Greenwood Press, c1997. (925-N). In addition to profiles of astronomers, chemists, physicists, and those in related fields, with some portraits, there are appendixes with "Scientists by Profession" and "Scientists by Honors and Awards Received."

### Applied Science

*Amelia Earhart's Daughters: The Wild and Glorious Story of American Women Aviators from World War II to the Dawn of the Space Age.* Haynsworth, Leslie. New York: W. Morrow, c1998. (629.1309-H)

*American Women in Technology: An Encyclopedia.* Zierdt-Warshaw, Linda. Santa Barbara, CA: ABC-CLIO, c2000. (604.8298-Z)

*Encyclopedia of Women in Aviation and Space.* Welch, Rosanne. Santa Barbara, CA: ABC-CLIO, c1998. (629.1309-W)

*Women Invent!: Two Centuries of Discoveries That Have Shaped Our World.* Casey, Susan. Chicago: Chicago Review Press, c1997. (604.82-C) Includes a helpful "Inventor's Resource Guide" with a reading list, places to visit, invention camps for kids, programs and competitions.

### Computer Pioneers

*International Biographical Dictionary of Computer Pioneers.* Chicago: Fitzroy Dearborn, c1995. (004.0922-I) Profiles of major figures in computer history. (Internet/Computer section, GR Wall Stacks.)

### Mathematicians – Women & Men

*Biographical Encyclopedia of Mathematicians.* New York: Marshall Cavendish, c1999. (925.1-B)

*Men of Mathematics.* Bell, Eric T. Simon & Schuster, c1937. (925-B)

*Notable Mathematicians: From Ancient Times to the Present.* Detroit: Gale, c1998. (510.22-N)

*Notable Women in Mathematics: A Biographical Dictionary.* Westport, CT: Greenwood Press, c1998. (510.922-N).

### Space Program

*Who's Who in Space.* International Space Year Ed. Cassutt, Michael. New York: Macmillan, c1993. (926.2945-C)

## SCIENCE TOPICS AND ACTIVITIES

### Ethics

*Encyclopedia of Ethics in Science and Technology.* Barber, Nigel. New York: Facts on File, c2002. (174.9503-B) Includes environmental issues, whistle-blowing, human and animal research ethics, as well as biographical profiles and an appendix on "ethics organizations, resources and websites."

### Experiments and Projects

*Botany: High School Science Fair Experiments.* Dashefsky, H. S. [Blue Ridge Summit, PA] : TAB Books, c1995. (581.078-D)

*Complete Handbook of Science Fair Projects.* Rev. ed. Bochinski, Julianne B. New York: Wiley, c1996. (507.9-B)

*Historical Experiments on File: Experiments, Demonstrations and Projects for School and Home.* New York: Facts on File, c1993. (507.8-H) GR Desk area.

*Magnets and Electric Current.* Hauppauge, NY: Barron's, c1994. (621.3078-M)  
(Super-Charged Science Projects series.)

*1001 Ideas for Science Projects.* 3d ed. New York: Prentice-Hall, c1999. (507.8-O)

*Science Experiments on File: Experiments, Demonstrations, and Projects for School and Home.* 2v. Rev. ed. New York: Facts on File, c2000. (507.8-S) GR Desk area. Covers multiple areas of science.

*Science Fair Projects: Flight, Space, Astronomy.* Bonnet, Robert L. New York: Sterling Pub. Co., c1997. (520.78-B)

*Super Science Fair Sourcebook.* Iritz, Maxine H. New York: Learning Triangle Press, c1996. (507.8-I)

*Zoology: High-School Science Fair Experiments.* Dashefsky, H. S. New York: TAB Books, c1995. (591.076-D)

### History

*Encyclopedia of the Scientific Revolution: From Copernicus to Newton.* New York: Garland Pub., c2000. (509.403-E)

*A History of Science: And Its Relations With Philosophy and Religion.* 4<sup>th</sup> ed. Dampier, W.C. Cambridge: Cambridge University Press, 1966. (509-D)

*History of Science from 1895-1945.* Spangenburg, Ray. New York: Facts on File, c1994. (509.04-S)

*History of Science from 1946 to the 1990's.* Spangenburg, Ray. New York: Facts on File, c1994. (509.045-S)

*Introduction to the History of Science.* 3v. in 5 Sarton, George. Baltimore, MD: Pub. For the Carnegie Institution of Washington by the Williams and Wilkins Co., c1927-1948. (509-S)

### Bibliography

*Reader's Guide to the History of Science.* London; Chicago: Fitzroy Dearborn, c2000. (509.03-R)

Online: History of Science Society [www.hssonline.org/guide/](http://www.hssonline.org/guide/) Links to organizations, institutions, scholars, publications, and graduate programs in science history.

Internet History of Science Sourcebook [www.fordham.edu/halsall/science/sciencesbook.html](http://www.fordham.edu/halsall/science/sciencesbook.html) Access to primary and secondary sources generated throughout the whole history of science.

## History – Chronology

### Major Work

*Science and Its Times: Understanding the Social Significance of Scientific Discovery.* 8v. Detroit: Gale Group, c2000-2001. (509-S) Vols. 1-7 cover science and technology by era from 2000 B.C. to the present. Includes biographical profiles or short sketches and bibliographies of primary sources and additional reading. Vol. 8 is an index to the whole set. GR Wall Stacks.

*African American Firsts in Science and Technology.* Webster, Raymond B. Detroit: Gale Group, c1999. (508.996-W)

*Science & Technology Firsts.* Bruno, Leonard C. Detroit: Gale Research, c1997. (609-B) As the titles indicate, both cover science and technology, regardless of class number.

*Breakthroughs: A Chronology of Great Adventures in Science and Mathematics, 1200-1930.* Parkinson, Claire P. Boston, MA: G.K. Hall, c1985. (509-P)

*Chronological Encyclopedia of Discoveries in Space.* Zimmerman, Robert. Phoenix, AZ: Oryx Press, c2000. (500.509-Z)

*Great Events from History II. Science and Technology.* 5v. Pasadena, CA: Salem Press, c1991. (509.04-G) Covers significant events from 1888 to 1991; not only listing them but offering extensive discussions and bibliographies, as well.

*Milestones in Science and Technology: The Ready Reference Guide to Discoveries, Inventions, and Facts.* 2d ed. Mount, Ellis. Phoenix, AZ: Oryx Press, 1994. (500-M). Scientific terms, events, and inventions are arranged alphabetically and summarized, with suggested additional reading. A chronological index arranges “milestones” by year and a personal name index leads from scientists/inventors to the articles which mention them.

*Milestones of Science.* Suplee, Curt. Washington, D.C.: National Geographic, c2000. (509-S)

*The Wilson Chronology of Science and Technology.* Ochoa, George. New York: H.W. Wilson, c1997. (502.02-O)

Online: Today in Science History [www.todayinsci.com](http://www.todayinsci.com)

## Laws

*Scientific Laws, Principles, and Theories: A Reference Guide.* Krebs, Robert E. Westport, Conn.: Greenwood Press, c2001. (509-K) Scientific laws, concepts, theories are arranged alphabetically, i.e. Aristotle's and Galileo's theories, Kirchoff's Laws and Theories, Simon's Third Law of Thermodynamics, etc., and explained. Includes a glossary and detailed index.

**Natural History – New York** [See also: *A Natural History of N.Y.C.*, (574.9747-K)]  
*Wild New York: A Guide to the Wildlife, Wild Places, & Natural Phenomena of New York City*. Mittelbach, Margaret. New York: Crown, c1997. (508.7471-M)  
*Woodlands, Wetlands & Wildlife: A Guide to the Natural Areas of New York City Parks*. New York: City Parks Foundation, c1994. (500.9747-W)

## TOPICS BY DEWEY CLASSIFICATION

### **INTERNET/COMPUTERS (004's-)** (Internet/Computer Section: GR Wall Stacks)

*Dictionary of the Internet*. Ince, Darrel. Oxford: Oxford University Press, c2001.

(004.678-I). [Other basic sources on aspects of the Internet and *using the Internet as it relates to various subjects* are in this area.]

*Gale Encyclopedia of E-Commerce*. 2v. Detroit: Gale Group, c2002. (658.84-G)

*How the Web Was Born: The Story of the World Wide Web*. Gillies, James. Oxford: Oxford University Press, c2000. (004.678-G) Includes: timeline, bibliography of printed and web resources, and a list of acronyms.

*Encyclopedia of Computer Science*. 4<sup>th</sup> ed. London: Nature Pub. Group, c2000.

(004.03-E). [Sources on PC's, Macs, Windows, Word, computer databases are in this section.]

*Encyclopedia of Computers and Computer History*. 2v. Chicago: Fitzroy Dearborn, c2001. (004.03-E)

*Prentice Hall's Illustrated Dictionary of Computing*. 3d ed. Nader, J. (Jonah).

New York: Prentice Hall, c1998. (004.03-N)

*The Universal History of Computing: From the Abacus to the Quantum Computer*.

Ifrah, Georges. New York: J. Wiley, c2001. (004.09-I)

*The Whatis? Encyclopedia of Technology Terms*. Indianapolis, Ind.: Que, c2002.

004.03-W) 10,000 information technology and computer terms; see: *Whatis.com*

*World of Computer Science*. 2v. Detroit, Mich.: Gale Group, c2002. (004.03-W)

### **MATHEMATICS (510 - 519)**

Introductory materials on mathematics include: *What is Mathematics?: An Elementary Approach to Ideas and Methods* (510-C), *Basic Mathematics* (510-F) *Merriam-Webster's Guide to Everyday Math: a Home and Business Reference* (510-B).

Assorted reference texts: *Explorations in College Algebra* (512-K), *Algebra and Trigonometry* (512.13-K), *Calculus: An Intuitive and Physical Approach* (515-K), *Calculus and Analytic Geometry* (515.15-C), *Introduction to Geometry* (513-C), *Geometry* (516.2-J), *Statistics* (519.5-S).

Standard test preparation materials are in the Education Collection on the 2<sup>nd</sup> floor.

*CRC Concise Encyclopedia of Mathematics*. Weisstein, Eric W. Boca Raton, FL: CRC Press, c1999. (510.3-W) "A compendium of mathematical definitions, formulas, figures, tabulations, and references." Operations and terms are explained, i.e. Sinc Function, Zero, Binomial Coefficient, etc., and challenges and solutions are shown in detail, Ex. Fermat's Last Theorem.

***CRC Standard Mathematical Tables and Formulae.* 30<sup>th</sup> ed. Boca Raton, FL: CRC Press, 1996. (510.212-C) Chapters cover tables and formulae in analysis, algebra, geometry, discrete mathematics, continuous mathematics, probability and statistics, special functions, scientific computing, financial analysis (i.e. figuring interest), and miscellaneous (metric to English conversion and vice versa, temperature conversion, calendar year computations, professional mathematical organizations, web sites, short biographical identifications of mathematicians, winners of the Fields' Medal, 1936-1994, and mathematical notations).**

## **ASTRONOMY, SPACE, THE CALENDAR, AND TIME (520 – 529)**

### **Major Work**

***Encyclopedia of Astronomy and Astrophysics.* 4v. Bristol; Philadelphia: London; New York: Institute of Physics Pub.; Nature Pub. Group, c2001. (520.3-E) A significant, illustrated work encompassing almost 700 main articles, with bibliographies, by distinguished contributors as well as hundreds of small articles covering definitions, space vehicle and mission identifications, astronomical observatories and institutes, and "short biographies of some of the world's leading astronomers and astrophysicists, mostly of the past." Some living astronomers, such as Nobel Prize winners, were added.**

***America's Planetariums & Observatories: A Sampling.* Beck, R.L. St. Petersburg, FL: Sunwest Space Systems, c1991. (520.74-B) History, description, and facilities.**

***The Facts on File Dictionary of Astronomy.* 4<sup>th</sup> ed. New York: Facts on File, c2000. (520.3-F)**

***The Handy Space Answer Book.* Englebert, Phillis. Detroit, MI: Visible Ink Press, c1998. (520-E)**

***The National Audubon Society Field Guide to the Night Sky.* Chartrand, Mark R. New York: Knopf, c1997. (523-C)**

***Sky Watcher's Handbook: The Expert Reference Source for the Amateur Astronomer.* New York: W.H. Freeman/Spektrum, c1993. (520-S)**

***The Solar System.* 3v. Pasadena, CA: Salem Press, c1998. (523.2-S) A series of explanatory essays on all aspects of the solar system.**

### **History**

***The Cambridge Illustrated History of Astronomy.* Cambridge; New York: Cambridge University Press, c1997. (520.9-C)**

***The Norton History of Astronomy and Cosmology.* North, John. New York: Norton, 1994, c1995. (523.1-N)**

### **The Calendar and Time**

***The American Ephemeris for the 21<sup>st</sup> Century: 2000 to 2050 at Midnight.* Exp. 2d ed. Michelson, Neil F. San Diego, CA: ACS Publications, c1997. (528-M)**

***Calendars of the World: A Look at Calendars & the Ways We Celebrate.* Westrheim, Margo. Oxford, England: Oneworld, c1993. (529.3-W)**

*1000 Years: A Julian/Gregorian Perpetual Calendar A.D. 1100 to 2099.* Fredregill, Ernest J. New York: Exposition Press, c1970. Determine the day of the week for a particular date for 1000 years. ["Perpetual Calendars" in *The World Almanac* and others also allow such calculations for various periods. Or try: Time and Date.com [www.timeanddate.com](http://www.timeanddate.com)].

*The Oxford Companion to the Year.* Blackburn, Bonnie J. New York; London: Oxford University Press, c1999. (529.3-B)

*The Story of Time.* London: Merrell Holberton; New York: Distributed in the U.S.A. by Rizzoli International, c1999. (529-S)

Online: Amateur Observers' Society of New York, Inc. -

[www.benjaminsweb.com/aos/index.htm](http://www.benjaminsweb.com/aos/index.htm)

Astronomical Society of the Pacific -

[www.astrosociety.org/resources/linkplanetaria.html](http://www.astrosociety.org/resources/linkplanetaria.html)

A worldwide directory of planetarium and observatory sites.

Calendar Zone [www.calendarzone.com](http://www.calendarzone.com) Links to many sites on calendars and timekeeping.

## PHYSICS (530 - 539)

### Major Works

*C.R.C. Handbook of Chemistry and Physics.* See: Chemistry.

*Macmillan Encyclopedia of Physics.* 4v. New York: Simon & Schuster Macmillan, c1996. (530.03-M) Features extensive, alphabetically-arranged articles on physics topics, concepts, and laws, with illustrative graphs or equations and line drawings, and biographical profiles. A "Reader's Guide" organizes articles into groups such as: biographies, concepts, devices and equipment, discussion topics, effects, laws, principles, and space.

*World of Physics.* 2v. Detroit: Gale Group, c2001. (530.03-W) Topics and biographical profiles.

*Fundamentals of Physics.* 5<sup>th</sup> ed. New York: J. Wiley & Sons, c1997. (530-F) Text.  
*How Things Work: The Physics of Every Day Life.* Bloomfield, Louis. New York: J. Wiley, c1997. (530-B) How things work and the physics involved.

*McGraw-Hill Dictionary of Physics.* 2d ed. New York: McGraw-Hill, c1997. (530.03-M)

*The Physics of Baseball.* Adair, Robert Kemp. New York: Harper & Row, c1990. (796.357-A) A special application of the principles of physics.

### Measurement

*For Good Measure: The Most Complete Guide to Weights and Measures and Their Metric Equivalents.* Johnstone, William D. Lincolnwood, IL: NTC Pub Group, 1998, c1975. (530.81-J)

*Quantification in Science: The VNR Dictionary of Engineering Units and Measures.* Melaragno, Michele. New York: Van Nostrand Reinhold, c1991. (530.0212-M)

*Metric for Me!: A Layperson's Guide to the Metric System for Everyday Use...*  
Shoemaker, Robert W. South Beloit, IL; Naperville, IL: Blackhawk Metric Supply; Two-Twenty-Two Productions, c1993. (530.812-S)  
*Sizes: The Illustrated Encyclopedia.* Lord, John. New York: HarperPerennial, c1995. (530.8103-L)

#### Electricity

*Basic Electricity.* 2d ed. Ryan, Charles W. New York: Wiley, c1986. (537.077-R)

Online: American Institute of Physics [www.aip.org](http://www.aip.org)  
American Physical Society [www.aps.org/](http://www.aps.org/)

### CHEMISTRY (540 - 549)

#### Major Works

*C.R.C. Handbook of Chemistry and Physics; A Ready Reference Book of Chemical and Physical Data.* Annual. Cleveland: Chemical Rubber Co. (540.0212-C)  
Tables of data in both areas of science.

*Macmillan Encyclopedia of Chemistry.* 4v. New York: Macmillan Reference USA, c1997. (540.3-M) Arrangement is similar to *Macmillan Encyclopedia of Physics* (see above). Here, the "Reader's Guide" is called "Outline of Contents." Includes "Periodic Table of the Elements" and list of "Nobel Prize Winners in Chemistry."

*World of Chemistry.* Detroit: Gale Group, c2000. (540-W) Includes topics and biographical profiles.

*Exploring Chemical Elements and their Compounds.* Heiserman, David L. New York: TAB Books, c1992. (546-H) "A guided tour of the Periodic Table, For ages 12 and up."

*A Field Guide to Rocks and Minerals.* 5<sup>th</sup> ed. Pough, Frederick H. Boston: Houghton Mifflin, c1996. (549.1-P) Pt. 2 covers "Mineral Descriptions" and has a section of color illustrations.

*Hawley's Condensed Chemical Dictionary.* 13<sup>th</sup> ed. New York: Van Nostrand Reinhold, c1997. (540.3-H) Definitions with chemical formulas, properties, hazards, and uses. Includes appendixes "Highlights in the History of Chemistry," and "Manufacturers of Trademarked Products" (names/addresses). Temperature Conversion Table on inside back cover.

A Selection of Textbooks: *Basic Concepts of Chemistry* (540-B), *Introduction to General, Organic, and Biochemistry* (540-I), *Fundamentals of Analytical Chemistry* (543-F).

#### History

*The Norton History of Chemistry.* Brock, William H. New York: Norton, 1993, c1992. (540.9-B)

Online: American Chemical Society, Chemistry.org. [www.acs.org](http://www.acs.org)  
Periodic Table <http://webelements.com/index.html>

## EARTH SCIENCE (550 – 559)

### Major Work

*Encyclopedia of Earth Sciences*. 2v. New York: Macmillan Reference USA, c1996. (550.3-E)

Deserts: *Encyclopedia of Deserts*. Norman: University of Oklahoma Press, c1999. (910.0215-E) Although classed in geography, this work has a tremendous quantity of science articles on deserts, their flora and fauna, and environmental issues like desertification.

Earthquakes: *Quakes, Eruptions, and Other Geologic Cataclysms: Revealing the Earth's Hazards*. Rev. ed. Erickson, Jon. New York: Facts on File, 2001. (550-E); *Earthquakes*. 4<sup>th</sup> ed. (551.22-B) Textbook.

Gems: *Color Encyclopedia of Gemstones*. 2d ed. Arem, Joel E. New York: Van Nostrand Reinhold Co., c1987. (553.8032-A)

Geology: *Essentials of Geology*. 7<sup>th</sup> ed. Upper Saddle River, N.J.: Prentice Hall, etc., c2000. (550-E) College-level textbook.

*The Geology of New York City and Environs*. Schuberth, Christopher J. Garden City, N.Y.: Published for the American Museum of Natural History..., c1968. (557.472-S)

*Roadside Geology of New York*. Van Diver, Bradford B. Missoula: Mountain Press Pub. Co., c1985. (557.47-V) Covers New York State.

Mountains: *Standard Encyclopedia of the World's Mountains*. Huxley, Anthony J. New York: Putnam, c1962. (551.4303-H)

Oceans: *Encyclopedia of the Sea*. Ellis, Richard. New York: Alfred A. Knopf, c2000. (551.46-E)

Rocks & Minerals: *Cambridge Guide to Minerals, Rocks and Fossils*. 2d ed. Bishop, A. C. Cambridge [England]; New York: Cambridge University Press, c1999. (552-B)

Volcanoes: *Encyclopedia of Volcanoes*. San Diego: Academic Press, c2000. (551.2103-E) Truly a major source on the subject.

Water: *The Water Encyclopedia*. 2d ed. Van der Leeden, Fritz. Chelsea, Mich.: Lewis Publishers, c1990. (553.7021-V)

Weather: *Encyclopedia of Weather and Climate*. 2v. Allaby, Michael. New York: Facts on File, c2002. (551.603-A)

*The Weather Almanac*. Detroit: Gale Research. (551.6973-W)  
History

*Air Apparent: How Meteorologists Learned to Map, Predict, and Dramatize Weather*. Monmonier, Mark S. Chicago, IL: University of Chicago Press, c1999. (551.6302-M)

## 560 – 590 = LIFE SCIENCES

*Encyclopedia of Life Sciences*. 20v. London; New York: Nature Pub. Group, c2002. (570.03-E) Health Information Center, Wall Stack. Major resource on medical subjects as well as general biology and the full range of life sciences.

## **PALEONTOLOGY/PALEOZOOLOGY (560 - 569)**

*Dinosaurs: the Encyclopedia.* and *Dinosaurs: the Encyclopedia. Supplement I.*

Glut, Donald. Jefferson, N.C.: McFarland Co., c1997-. (567.9103-G)

*Encyclopedia of Paleontology.* 2v. Chicago: F. Dearborn, c1999. (560.3-E)

Several other works on fossils and dinosaurs.

Online: The New York Paleontological Association [www.nyps.org](http://www.nyps.org)

The Paleontological Association [www.palass.org](http://www.palass.org)

## **BIOLOGY (570 - 579)**

### **Major Works**

*Biology.* 4v. New York: Macmillan Reference USA, c2002. (570-B) Extensive compendium of accessible articles on biology with many color illustrations. Includes biographical profiles, topic outlines, indexes, and a cumulative index in the last volume.

*World of Biology.* Detroit: Gale Group, c1999. (570.3-W) Articles on biological scientists and their works as well as on topics and terms in all areas of biology with many b/w illustrations. Includes an historical chronology by year.

### **Classification**

*Five Kingdoms: An Illustrated Guide to the Phyla of Life on Earth.* 3<sup>d</sup> ed. Margulis, Lynn. New York: W.H. Freeman, c1998. (570.12-M) A guide to, and classification of, all the living organisms found on earth.

*Synopsis and Classification of Living Organisms.* Vol. 2 New York: McGraw-Hill, c1982. (574.012-S) Vol. 2, "Kingdom Animalia," has many b/w illustrations. The appendix offers a review of the history of nomenclature in taxonomy and classification, a discussion of biological classification, and a complete classification schedule.

*The Variety of Life: A Survey and Celebration of All the Creatures That Have Ever Lived.* Tudge, Colin. Oxford; New York: Oxford University Press, c2000. (578.012-T)

### **Dictionaries and One-Volume Encyclopedias**

*Concise Encyclopedia Biology.* Berlin; New York: Walter de Gruyter, c1996. (574.03-C)

*Facts on File Dictionary of Biology.* 3d ed. New York: Facts on File, c1998. (570.03-F)

*McGraw-Hill Dictionary of Bioscience* New York: McGraw-Hill, c1997. (574.03-M)

Textbooks: *Biology, Life on Earth* (570-B); *Essential Cell Biology* (571.6-E), etc.

### **History**

*Biological Sciences in the Twentieth Century.* Borell, Merriley. New York: Scribner, c1988. (574.0904-B) Many b/w illustrations.

*Biology and Its Makers.* 3d ed. Lacy, William A. New York: Henry Holt and Co., c1935. (574.09-L) An old classic with many illustrations of biologists and an historical reading list.

*The Epic History of Biology.* Serafini, Anthony. New York: Plenum, c1993.  
(570.9-S) Biology from ancient times all the way to the Human Genome Project.

#### History – Bibliography

*Bibliography of the History of Biology.* Baumer-Shleinkofer, Anne. Frankfurt Am Main; New York: Peter Lang, c1997. (016.5709-B)

#### History – Flora and Fauna - New York City

*A Natural History of New York City.* Kieran, John. New York: Fordham University Press, c1982. (574.9747-K) Covers plant and animal life.

#### Genetics

##### Major Works

*Encyclopedia of Genetics.* 2v. Pasadena, CA: Salem Press, c1999. (576.503-E)  
*Encyclopedia of Genetics.* London; Chicago: Fitzroy Dearborn, c2001. (576.503-E)

*Genetics and Genetic Engineering.* Yount, Lisa. c1997. New York: Facts on File, c2001. (576.509-Y); [Note: *Facts on File Dictionary of Biotechnology and Genetic Engineering.* New ed. c2001 (660.603-S) and *Unravelling Genes: A Layperson's Guide to Genetic Engineering.* c2000 (660.65-W) are classified in biotechnology.]

See LEO Catalog for human or medical genetics; Health Information Center has physical aspects and History and Social Sciences has social and cultural aspects, including bioethics.

#### Evolution

*The Book of Life.* New York: W.W. Norton, [2001]. (576.83-B)

“An illustrated history of the evolution of life on earth.”

*The Encyclopedia of Evolution: Humanity's Search for Its Origins.* Milner, Richard. New York: Facts on File, c1990. (573.203-M) Natural selection; dinosaurs, extinction of; ice age; origin of species; Scopes trial and scientific creationism; and biographical profiles.

*Evolution Wars: A Guide to the Debates.* Ruse, Michael. Santa Barbara, CA: ABC-CLIO, c2000. (576.809-R)

*The Extraordinary Story of Human Origins.* Angela, Piero. Buffalo, NY: Prometheus Books, c1993. (573.2-A)

*The Fossil Trail: How We Know What We Think We Know About Human Evolution.* Tattersall, Ian. Oxford; New York: Oxford University Press, c1995. (573.2-T)

#### PLANTS AND TREES (580 - 589)

##### Botany

*Botany for Gardeners: An Introduction and Guide.* Capon, Brian. Portland, OR: Timber Press, 1990. (581-C)

*Dictionary of Economic Plants.* 2d ed., Rev. and enl. Uphof, Johannes. C.T. Lehre, New York, J. Cramer; Stechert-Hafner, 1968. (581.603-U)

- Hortus Third; A Concise Dictionary of Plants Cultivated in the U.S. and Canada.* Liberty Hyde Bailey Hortorium. New York: Macmillan, 1976. (581.9703-L)
- Plants and Their Names: A Concise Dictionary.* Hyam, R. (Roger). Oxford; New York; Edinburgh: Oxford University Press; Royal Botanical Gardens, c1995. (581.014-H)
- Plants of the Vicinity of New York.* Rev. ed. Gleason, H. A. New York, Published for the New York Botanical Garden by Hafner Pub. Co., [c1962]. (581.9747-G)

#### Herbs

- New Encyclopedia of Herbs and Their Uses.* Bown, Deni. London; New York: DK Pub., c2001. (581.6303-B)

#### Trees

- A Field Guide to Eastern Trees: Eastern United States and Canada.* Expanded Ed. Petrides, George A. Boston: Houghton Mifflin, 1998. (582.1609-P)
- The Illustrated Book of Trees & Shrubs.* New York, N.Y.: Gallery Books, 1985. (582.16-I)
- The Urban Tree Book: An Uncommon Field Guide for City and Town.* Plotnick, Arthur. New York: Times Rivers Books, c2000. (582.1609-P)

#### Wildflowers

- National Audubon Society Field Guide to North American Wildflowers: Eastern Region.* Rev. ed. Thieret, John W. New York: Alfred A. Knopf, c2001. (582.1309-T)

### ANIMALS (590 – 599)

#### Major Works

- Animal.* New York: [Washington, D.C.]: DK; Smithsonian Institution, c2001. (590-A) Prepared under the auspices of the Smithsonian, this volume calls itself "the definitive visual guide to the world's wildlife." It describes over 2,000 species in each animal group (ex. mammals), offering photographic illustrations and maps of their ranges. Major introductory sections review animal classification, anatomy, behavior and life cycles, conservation, and characteristic habitats.
- Animal Sciences.* 4v. New York: Macmillan Reference USA: Gale Group/Thomson Learning, c2002. (590.3-A) Similar in arrangement to *Biology*, 4v. [See *Biology*, Major Works]. Well-illustrated and accessible articles on all aspects of the animal kingdom plus profiles of scientists in the field. Includes: Comparison of the Five- and Six- Kingdom Classification of Organisms; Phylogenetic Tree of Life; Geological Time Scale; and Measurement, Abbreviations, and Conversion Charts.

Online: The *EBSCO Animals database*, available via *EBSCOhost* through NYPL's *E-Resources*, offers information on a variety of topics relating to animals.

### Zoos and Aquariums

*Encyclopedia of the Worlds Zoos*. 3v. Chicago, IL: Fitzroy Dearborn Publishers, c2001. (590.7303-E) Detailed descriptions of zoos and related information.

*Aquariums of North America*. Hilliard, Richard. Metuchen, N.J.: Scarecrow Press, c1995. (597.0074-H)

*The Modern Ark: The Story of Zoos: Past, Present, and Future*. Croke, Vicki. New York: Avon Books, c1997. (590.73-C)

*Official Museum Directory*. Annual. (069.0257-O) Ready Reference, GR. U.S. zoos, aquariums, marine and herpetology museums, oceanariums, wildlife refuges.

Online: American Zoo and Aquarium Association [www.aza.org](http://www.aza.org) Directory of all member zoos and aquariums, with web sites and e-mail addresses.

*Concepts in Zoology*. 2d ed. Harris, C. Leon. New York: Harpercollins College Publishers, 1995, c1995. (591-H) College textbook.

### Fish and Marine Life

*Encyclopedia of Aquatic Life*. New York, N.Y.: Facts on File, 1985. (591.92-E)

*Encyclopedia of Fishes*. 2d ed. San Diego, CA: Academic Press, c1998.

(597.03-E) Pt. 1, "The World of Fishes," includes classification, behavior, and endangered species; Pt. 2 is "Kinds of Fishes." Well-illustrated.

*The Encyclopedia of Shells*. Wye, Kenneth R. New York: Facts on File, c1991. (594.0471-W)

*Freshwater Fishes of New York State: A Field Guide*. Werner, Robert G. Syracuse, NY: Syracuse University Press, c1980. (597.0929-W)

*National Audubon Society Field Guide to Fishes. North America*. Rev. ed.

Gilbert, Carter R. New York: Alfred A. Knopf, c2002. (597.097-G) Saltwater and freshwater species are described and their ranges shown; a separate section of color photos is keyed to the text section.

*National Audubon Society Field Guide to Tropical Marine Fish...* Smith, C. L. New York: Knopf, c1997. (597.1713-S)

### Insects

*Dragonflies of the World*. Sillsby, Jill. Washington, D.C.: Smithsonian Institution Press, c2001. (595.733-S)

*A Field Guide to Insects: America North of Mexico*. Borror, Donald Joyce. Boston: Houghton Mifflin, c1970. (595.7097-B)

*An Introduction to the Study of Insects*. 6<sup>th</sup> ed. Philadelphia: Fort Worth: Saunders College Pub., c1992. (595.7-I) College textbook.

*National Audubon Society Field Guide to North American Butterflies*. Pyle, Robert M. New York: Knopf, c1997. (595.789-P)

*National Audubon Society Field Guide to North American Insects & Spiders*. Milne, Lorus J. New York: Knopf, c1980. (595.7009-M)

*The Practical Entymologist*. Imes, Rick. New York: Simon & Schuster, c1992. (595.7-I)

## Reptiles and Amphibians

*Encyclopedia of Reptiles & Amphibians*. 2d ed. San Diego, CA: Academic Press, c1998. (597.903-E) Beautifully illustrated in color.

*National Audubon Society Field Guide to North American Reptiles and Amphibians*. Behler, John L. New York: Knopf, c1997. (597.9 B) Large section of color illustrations. Each species is described and voice, breeding, habitat, and range are discussed.

## Birds

### Major Works

*Birds of North America*. Alsop, Fred. New York: DK Pub., c2001. (598.097-A)

*National Audubon Society Sibley Guide to Birds*. Sibley, David. New York: Knopf, c2000. (598.097-S)

*Sibley Guide to Bird Life and Behavior*. Sibley, David. New York: Alfred A. Knopf; Dist. by Random House, c2001. (598.097-S)

*All the Birds of North America: American Bird Conservancy's Field Guide*. Griggs, Jack L. New York, N.Y.: HarperPerennial, c1997. (598.097-G)

*Birds of Europe: with North Africa and the Middle East*. Jonsson, Lars. Princeton, N.J.: Princeton University Press, c1992. (598.294-J)

*Birds of New York City, Western Long Island, & Northeastern New Jersey*. Fisher, Chris. Renton, WA: Lone Pine Pub., c1998. (598.0974-F)

*Birds of the World*. Harrison, Colin J.O. London; New York; Boston: Dorling Kindersley; Dist. by Houghton Mifflin, c1993. (598-H)

*Bull's Birds of New York State*. Ithaca: Comstock, c1998. (598.0974-B)

*New York's 50 Best Places to Go Birding In and Around the Big Apple*.

Thaxton, John. New York: City & Co., 1998. (598.0723-T)

Online: New York City Audubon Society [www.nycas.org](http://www.nycas.org)

Audubon Society [www.audubon.org](http://www.audubon.org)

## Mammals

### Major Works

*Encyclopedia of Mammals*. 3v. New York: Facts on File, c2001. (599.03-E)

*Grzimek's Encyclopedia of Mammals*. 5v. New York: McGraw-Hill, c1990. (599-G)

*Walker's Mammals of the World*. 6<sup>th</sup> ed. 2v. Nowak, Ronald M. Baltimore, MD: Johns Hopkins University Press, 1999. (599-N)

*National Audubon Society Guide to Marine Mammals of the World*. New York: Chanticleer Press, c2002. (599.5-N) Covers all the varieties of whales, dolphins, porpoises, seals and sea lions, manatees, otters, and polar bears. Well-illustrated.

*New York Wildlife Viewing Guide*. Knight, Frank. Helena, MT: Falcon Publishing, c1998. (599.0974-N)

An assortment of sources on individual mammal groups (bears, primates, etc.) may be found in this section.

## ECOLOGY, ENVIRONMENT, CONSERVATION, AND ENERGY

This section brings together works in a variety of class numbers.

### ENDANGERED SPECIES AND HABITATS; IMPORTANCE OF CONSERVING BIODIVERSITY

#### Major Work

*Beacham's Guide to the Endangered Species of North America*. 6v. Detroit, MI: Gale Group, c2001. (578.6809-B) Each volume covers different groups of threatened animals and plants. There is a section on relevant organizations.

*Biodiversity: A Reference Handbook*. Becher, Anne. Santa Barbara, CA: ABC-CLIO, 1998. (333.95-B)

*The Biodiversity Crisis: Losing What Counts*. New York: New Press; Distributed by W.W. Norton, c2001. (333.9516-B) "Published in conjunction with the American Museum of Natural History," this work includes some profiles of people in the field, a section on the museum's own "Hall of Biodiversity," and a "Resources" area suggesting additional reading and related web sites.

*Encyclopedia of Endangered Species*. Detroit, MI: Gale Research, Inc., c2001. (578.68-E)

*Endangered Oceans: Opposing Viewpoints*. San Diego, CA: Greenhaven Press, c1999. (577.7-E)

*Endangered Species: Opposing Viewpoints*. San Diego, CA: Greenhaven Press, c2001. (333.9522-E)

*Habitats and Ecosystems: An Encyclopedia of Endangered America*. Crawford, Mark. Santa Barbara, CA: ABC-CLIO, c1999. (578.68-C) Appendixes include "National Organizations and Offices," "Selected Organizations by State," and "Federally Endangered and Federally Threatened Flora and Fauna in the United States."

#### Forest and Wetland Ecosystems

*A Neotropical Companion: An Introduction to the Animals, Plants and Ecosystems of the New World Tropics*. 2d, Rev. ed. Kricher, John. Princeton, N.J.: Princeton University Press, c1997. (577.098-K) Large sections on "Rainforest Structure and Diversity," "How a Rainforest Functions," "The Neotropical Pharmacy," and "Deforestation and Conservation of Biodiversity."

*Temperate Forests*. Allaby, Michael. New York: Facts on File, c1999.

(557.3091-A) The class number is different but this book is organized exactly like, and is in the same series as, *Wetlands* (see below); it covers forests in changing climate conditions, such as those of North America.

*Tropical Rainforest: Our Most Valuable and Endangered Habitat with a Blueprint for Its Survival into the Third Millennium*. Rev. ed. Newman, Arnold. New York: Checkmark, c2002. (577.34-N) Well illustrated. An appendix lists some educational resources.

*Wetlands*. Moore, Peter D. New York: Facts on File, c2001. (577.68-M) Major sections cover the biology, biodiversity, geology, and economics of wetland ecosystems and much more. Well-illustrated.

**Online:** U.S. Fish and Wildlife Service, Endangered Species Program –  
*endangered.fws.gov*  
EndangeredSpecies.com [www.endangeredspecie.com](http://www.endangeredspecie.com)  
Endangered Species Coalition [www.stopextinction.org](http://www.stopextinction.org)

## ECOLOGY, ENVIRONMENT, AND CONSERVATION

### Major Works

- Conservation and Environmentalism: An Encyclopedia.* New York: Garland Pub., c1995. (363.7003-C)
- Encyclopedia of Environmental Studies.* New ed. Ashworth, William. New York: Facts on File, c2001. (333.703-A) Major compendium of articles on topics large and small, organizations, and individuals.
- Environmental Encyclopedia.* 2d ed. Detroit: Gale Research, c1998. (363.7003-E) Mostly lengthy articles on topics, environmental agencies and organizations, and people in the field. Some b/w illustrations. Includes sections: “Historical Chronology” and “Environmental Legislation in the United States.”
- Dictionary of Ecology and the Environment.* 4<sup>th</sup> ed. London: Peter Collin Pub., 2001. (333.703-D)
- Dictionary of Environmental Science and Technology.* 2d ed. Porteous, Andrew New York: J. Wiley, c1996. (628.03-P) This call number reflects classification in engineering as it applies to the environment.
- Ecology: A Bridge Between Science and Society.* Odum, Eugene P. Sunderland, Mass: Sinauer Associates, c1997. (577-O) “Revised edition of ‘Ecology and Our Endangered Life-Support Systems.’ 2d ed.”
- Environmental Literature: An Encyclopedia of Works, Authors, and Themes.* Netzley, Patricia D. Santa Barbara, CA: ABC-CLIO, c1999. (333.72-E)
- Facts on File Dictionary of Environmental Science.* New ed. Wyman, Bruce. New York: Facts on File, c2001. (363.7003-W)
- Global Warming: Opposing Viewpoints.* San Diego, CA: Greenhaven Press, c1997. (363.7387-G)
- Guide to Global Environmental Issues.* Dunn, Terry L. Golden, CO: Fulcrum Publ., c1997. (363.7-D) Includes an appendix with multi and single issue organizations.
- McGraw-Hill Encyclopedia of Environmental Science & Engineering.* 3d ed. New York, McGraw-Hill, c1993. (628.03-M)
- Modern Environmentalism: An Introduction.* Pepper, David. London; New York: Routledge, 1997, c1996. (333.72-P)
- Pollution Science.* San Diego: Academic Press, c1996. (628.5-P)

### Directories

- Conservation Directory.* Annual. Washington: National Wildlife Federation. (639.9025-C)
- Co-Op America’s National Green Pages.* Annual. Washington, DC: Co-op America Foundation. (338.0973-C) “A directory of products and services for people and the planet.”

## History

*The Norton History of the Environmental Sciences.* Bowler, Peter J. London; New York: W. W. Norton, 1993, c1992. (363.7009-B)

*Environmental Disasters: A Chronicle of Individual, Industrial, and Government Carelessness.* Davis, Lee A. New York: Facts on File, c1998. (363.732-D)

*Water for New York City: A 300 Year History of Water Sources for New York City...* Hall, Edward H. Saugerties, NY: Hope Farm Press, c1993. [Orig. circa 1917] (333.912-H) [For current information, see "New York City's Water Supply System" section of the \*\*DEP web site (below).]

## Statistics

*Statistical Record of the Environment.* 3d ed. Detroit, MI: Gale Research, c1995. (363.73-S) A major source of statistical tables on all areas of the environment, including wildlife and habitat; costs and expenditures; energy production and consumption, including nuclear energy; and climate and weather conditions. Tables show toxic chemical releases by chemical in each state, citing statistical source used. For updates, see U.S. EPA site\* (below).

*Vital Signs.* Annual. New York: Norton. (333.7-V) Produced by the Worldwatch Institute "in cooperation with the United Nations Environment Programme." Text, statistical tables, and graphs measure "quality of life," including environmental trends. Exs. "Oil Spills Decline," "Carbon Emissions Reach New High," or "Global Temperature Close to a Record."

Online: \*U.S. Environmental Protection Agency (EPA), Center for Environmental Information and Statistics [www.epa.gov/eq/quality.html](http://www.epa.gov/eq/quality.html)

(Includes: "Toxics Release Inventory," "Safe Drinking Water Information System," "Emissions Tracking System," etc., statistical tables.)

Envirolink [www.envirolink.org](http://www.envirolink.org) Links to scores of environmental sites.

The Council on the Environment of New York City [www.cenyc.org](http://www.cenyc.org)

Environmental Advocates of New York [www.eany.org](http://www.eany.org)

\*\*N.Y.C. Department of Environmental Protection -

[www.ci.nyc.ny.us/html/dep/home.html](http://www.ci.nyc.ny.us/html/dep/home.html)

## ENERGY

### Major Work

*The Wiley Encyclopedia of Energy and the Environment.* 2v. New York: John Wiley & Sons, c1997. (333.7903-W) Major articles on energy from all sources, including alternative ones; energy consumption, conservation, technologies; energy laws and policies; and types of pollution with effects on health and the environment.

*Energy: A Guidebook.* 2d ed. Ramage, Janet. Oxford; New York: Oxford University Press, c1997. (333.79-R)

*Energy Alternatives: Opposing Viewpoints.* San Diego, CA: Greenhaven Press, c2002. (333.79-E). One of a series; this pro and con covers issues surrounding the availability and desirability of various sources of energy.

*Nuclear Power: A Reference Handbook.* Henderson, Harry. Santa Barbara, CA: ABC-CLIO, c2000. (333.7924-H) Provides background for the controversial issues of nuclear power and nuclear waste. Includes: chronology, short biographical profiles, list of reactors in 1998, legislative and court case history overview, organizations, periodicals, web sites, and audiovisual materials.

#### Practical Information on Energy Conservation

*Consumer Guide to Home Energy Savings.* 7<sup>th</sup> ed. Washington, D.C.: \*American Council for an Energy-Efficient Economy..., c1999. (644-C) Lists of energy-efficient appliances and systems. An appendix lists telephone numbers and web sites of agencies and organizations “For More Information.”

*A Real Goods Solar Living Sourcebook.* 10<sup>th</sup> ed. White River Junction: Chelsea Green Pub. Co., c1999. (697.78-R) “The complete guide to renewable energy technologies and sustainable living.

Online: U.S. Department of Energy. Office of Energy Efficiency and Renewable Energy [www.eren.doe.gov](http://www.eren.doe.gov)  
\*American Council for an Energy-Efficient Economy [www.aceee.org](http://www.aceee.org) A section of this site offers some updating information for *Consumer Guide to Home Energy Savings* (see above).

### SELECTED TECHNOLOGY AND APPLIED SCIENCE TOPICS (600's)

#### TECHNOLOGY – GENERAL (600 – 609)

*The Cutting Edge: An Encyclopedia of Advanced Technologies.* Oxford University Press, c2000. (603-C)

*Marshall Brain's How Stuff Works.* Brain, Marshall. New York: Hungry Minds, c2001. (600-B)

*Scientific American: How Things Work Today.* New York: Crown, c2000. (600-S) Each machine or device's function is beautifully-illustrated and explained.

Online: HowStuffWorks [www.howstuffworks.com](http://www.howstuffworks.com)

Dual language technical dictionaries in the 603's include Spanish/English, English/Spanish; Italian/English, English/Italian; and Russian/English, English/Russian. Also: an illustrated but old *Handy Technical Dictionary in 8 Languages*, (603-H).

#### Hazardous Materials Technology

*Hazardous Chemicals Desk Reference.* 4<sup>th</sup> ed. New York: Van Nostrand Reinhold, c1997. (604.7-H)

#### History

*The Norton History of Technology.* Cardwell, Donald. New York: Norton, 1994, c1995. (609-C) Covers developments from the earliest days.

*A History of Invention: From Stone Axes to Silicon Chips.* Rev. ed. Williams, Trevor. New York: Checkmark Books, c2000. (609-W) Also a history of

technology, with broad coverage of such topics as “The Birth of Industrialization,” “The Rise of the Chemical Industry,” and “New Military Technologies.” Includes a “Biographical Dictionary” of very brief profiles. *A History of Technology & Invention*. 3v. Dumas, Maurice. New York: Crown Publishers, c1969. (609-D) A major, detailed, and well-illustrated account of technology to 1860.  
*When Technology Fails: Significant Technological Disasters, Accidents, and Failures of the Twentieth Century*. Detroit, Gale Research, c1994. (620.0042-W)

### INVENTIONS AND PATENTS

*Inventions and Inventors*. 2v. Pasadena, CA: Salem Press, c2002. (609-I) Arranged by invention, it includes an extensive account of each one’s development and importance, identifies inventor(s) responsible, and for some, provides an inset, short biographical profile.

*Popular Patents: America’s First Inventions from the Airplane to the Zipper*. Brown, Travis. Lanham, MD: Scarecrow Press, c2000. (608.773-B)

Records of American and foreign patents and indexes to patents are available at the Science Industry and Business Library (SIBL). See their site for “Patents and Trademarks” research guide. SIBL is a U.S. Patent and Trademark Depository Library. When it is closed on Mondays, the Newark Public Library is also a depository library. Its Business and Technology Center, 3<sup>rd</sup> floor, Main Library, 5 Washington Street, Newark, N.J., (973) 733-7779, [reference@npl.org](mailto:reference@npl.org), has hours from 9 A.M.– 5:30 P.M.

Information on registering trademarks and patents can be found in GR at 346.7304, including *Patent It Yourself, How to Register Your Own Trademark With Forms*, and *License Your Invention*. GR also has *The Trademark Register of the United States*, (602.75-T) - GR Ready Reference. You can search it to determine if a trademark is already in use.

The Job Information Center has books on inventing as a career, some with significant resource sections for inventors.

### ENGINEERING AND ALLIED OPERATIONS (620 – 629)

*Engineering Handbook*. Boca Raton: [Piscataway, N.J.] : CRC Press; IEEE Press, c1996. (620-E)

*Materials Handbook; an Encyclopedia for Managers, Technical Professionals, Purchasing and Production Managers, Technicians, and Supervisors*. 14<sup>th</sup> ed. Brady, George Stuart. New York: McGraw-Hill, c1997. (620.11-B)  
“Encyclopedic descriptions of minerals, chemicals, engineering and industrial materials, and plant and animal substances.” Exs.: Peppermint, platinum, quartz, sand, shellac, etc.

*McGraw-Hill Dictionary of Engineering*. New York: McGraw-Hill, c1997. (620.003-M) [Also included in *McGraw-Hill Dictionary of Scientific and Technical Terms*, 5<sup>th</sup> ed., see: General Science.]

*The Reference Guide to Famous Engineering Landmarks of the World: Bridges, Tunnels, Dams, Roads, and Other Structures.* Berlow, Lawrence H. Phoenix, Ariz.: Oryx Press, c1998. (620.009-B) Includes short biographies, a chronology, glossary, and bibliography in addition to articles on each landmark with some small b/w illustrations. Engineering history.

*Wiley Engineer's Desk Reference: A Concise Guide for the Professional Engineer.* 2d ed. Heisler, Sanford I. New York: Wiley, c1998. (620-H)

#### Electricity

*The Complete Guide to Home Wiring: A Comprehensive Manual from Basic Repairs to Advanced Projects.* Rev. ed. Minnetonka, Minn.: Creative Pub. Intl., c2001. (621.3192-C); *National Electrical Code 2002.* Delmar Learning, 2001. [On order].

#### Electronics

*The Illustrated Dictionary of Electronics.* 8<sup>th</sup> ed. New York: McGraw-Hill, c2001. (621.381-I); *The Electronics Handbook.* Boca Raton, Fla.: CRC Press : IEEE Press, c1996. (621.381-E); *Practical Electronics Handbook.* 5<sup>th</sup> ed. Sinclair, Ian R. Oxford: Newnes, c2000. (621.381-S)

#### Amateur Radio

*The ARRL Handbook for Radio Amateurs.* Annual. Newington, Conn.: American Radio Relay League. (621.3841-A) Covers theory, design and projects, construction and repair, FCC regulations, and references, including directory of suppliers.

#### Tools

*American Premium Guide to Knives & Razors.* 5<sup>th</sup> ed. Iola, WI: Krause Pub., 1999. (621.932-A)

*Encyclopedia of Antique Tools and Machinery.* Iola, Wis.: Krause Publications, c2001. (621.9075-E)

*Tools and How to Use Them.* Jackson, Albert. New York: Knopf, 1992, c1978. (621.9003-J)

#### Civil Engineering

*Field Engineer's Manual.* 2d ed. New York: McGraw-Hill, c1995. (624.0212-F) Used in civil engineering.

*The Great East River Bridge, 1883-1983.* Brooklyn, N.Y.: New York: Brooklyn Museum; Exclusively distributed to the trade by Abrams, c1983. (624.5509-G)

#### Nautical and Other Branches of Engineering

**Airplanes:** *A Brief History of Flight: From Balloons to Mach 3 and Beyond.* Heppenheimer, T.A. New York: Wiley, c2001. (629.1309-H)

*What Makes Airplanes Fly? : History, Science and Applications of Aerodynamics.* 2d ed., corr. Wegener, Peter P. New York: Springer, 1998, c1997. (629.1323-W)

**Automobiles:** *The Automobile: A Chronology of Its Antecedents, Development, and Impact.* McShane, Clay. Westport, Conn.: Greenwood Press, c1997. (629.222-M) Covers events through 1994; appendix has some tables and a section of "North American Car Museums."

*Cars: A Celebration.* Willson, Quentin. London, U.K.; New York:

Dorling Kindersley, c2001. (629.222-W) Great series of illustrations of automobiles. [Other books on cars of the past in this section.] *Chilton's Auto Service Manual*. Annual. West Chester, PA: W.G. Nichols. (629.2872-C) Car repair manual.  
*The Insider's Guide to Buying a New or Used Car*. 3d ed. Leon, Burke. Cincinnati, OH: Betterway Books, c2000. (629.222-I)  
Other guides to buying and leasing are at GR desk or on regular shelves; *NADA* and *Kelley Blue Book* on used car prices are at Periodicals on the 4<sup>th</sup> floor, [see used car price Internet sites also], as are consumer and auto periodicals.

**Bicycles:** *Richard's 21<sup>st</sup> Century Bicycle Book*. Ballantine, Richard.

Woodstock, N.Y.: Overlook Press, c2001. (629.2272-B)

**Motorcycles:** *The Complete Motorcycle Book: A Consumer's Guide*. 2d ed. New York: Facts on File, c1999. (629.2275-B)

**Ships, Boats & Navigation** *Ships of the World: An Historical Encyclopedia*. Paine, Lincoln P. Boston: Houghton Mifflin, 1997. (623.82-P) Naval and passenger ships by name and sections on "literary ships" and chronologies.  
*The Handbook of Knots*. Pawson, Des. 1<sup>st</sup> Amer. Ed. New York: DK Publishing, c1998. (623.8882-P)

*Piloting, Seamanship, and Small Boat Handling*. Chapman, Charles F. New York: Motor boating, [1922- (623.88-C) GR has 63<sup>rd</sup> ed. *Waterway Guide. Northern Edition*. Annual. Atlanta, Ga.: Intertec Publishing. (623.8929-W) This edition covers N.Y., N.J., and New England harbors, with marinas, services, shore charts, maps and docking information. GR has Middle Atlantic and Southern editions, too. Updates: [www.waterwayguide.com](http://www.waterwayguide.com)

### Space Program

*Encyclopedia of Space Exploration*. New York: Facts on File, c2000. (919.904-A)  
[This class number indicates "Travel on extraterrestrial worlds."]

*History of Rocketry & Space Travel*. 3d Rev. ed. Von Braun, Wernher. Crowell [c1975]. (629.409-V)

*Man in Space: An Illustrated History of Space Flight*. New York: Smithmark, c1993. (629.45-M) An oversized, copiously-illustrated review of rocket pioneers, Russian and American space missions, and other topics.

*Space Shuttle: The History of the National Space Transportation System*. 3d ed. Jenkins, Dennis R. Cape Canaveral, Fla.: D.R. Jenkins, c2001. (629.441-J)  
Covers the first 100 shuttle missions with considerable technical detail and numerous illustrations.

*To Rise from Earth: An Easy-to-Understand Guide to Spaceflight*. 2d ed. Lee, Wayne. New York: Facts on File, c2000. (629.4-L)

**Online:** NASA Human Spaceflight <http://spaceflight.nasa.gov>

### AGRICULTURE AND RELATED TECHNOLOGIES (630)

*Encyclopedia of American Agricultural History*. Schapsmeier, Edward. Westport, Conn.: Greenwood Press, c1975. (630.973-S); *Farmer's Organizations*.

Dyson, Lowell K. Westport, Conn.: Greenwood Press, c1986 (630.9073-D); *Historical Directory of American Agricultural Fairs*. Marti, Donald B. Westport, Conn.: Greenwood Press, c1986. (630.4013-M); *The New Oxford Book of Food Plants*. Vaughan, J.G. Oxford; New York: Oxford University Press, c1997. (633-V) [*Agricultural Statistics*, formerly *Yearbook of Agriculture*, is in History and Social Sciences, 5th floor, 338.1097-U. Statistics online: National Agricultural Statistics Service - [www.usda.gov/nass/](http://www.usda.gov/nass/)].

## **HORTICULTURE AND GARDENING (635)**

### **Major Work**

*New York Botanical Garden Illustrated Encyclopedia of Horticulture*. 10v. Everett, Thomas. New York: Garland Pub. Co., c1980-82. (635.9032-E) GR Wall Stacks.

### **Gardening-General**

*American Horticultural Society Encyclopedia of Gardening*. London; New York: Dorling Kindersley, c1993. (635-A)

*The Brooklyn Botanical Garden Gardener's Desk Reference*. New York: H. Holt, c1998. (635.9-B)

*The Complete Garden Guide*. Alexandria, Va.: Time-Life Books, c2000. (635-C)

*Gardening Through the Year*. 1<sup>st</sup> U.S. ed. Evans, Hazel. New York: Perennial Library, 1987, c1986. (635.9-E) "A monthly guide to looking after your garden."

*Reader's Digest New Illustrated Guide to Gardening*. Pleasantville, NY: Reader's Digest Association, c2000. (635-R)

*Taylor's Master Guide to Gardening*. Boston: Houghton Mifflin, c1994. (635.9-T)

### **Bibliography**

*The Gardener's Index: Where to Find Information About Gardens and Garden Plants*. Clews, Beth. New York: Neal-Schuman, c1993. (016.635-C) Indexes many significant gardening books by specific subjects.

*The Gardener's Reading Guide*. Dean, Jan. New York: Facts on File, c1993. (016.635-D) Subtitled: "The Best Books for Gardeners," it covers classics and then-current titles, both popular and reference in nature.

### **Dictionaries**

*Complete Gardener's Dictionary*. Ellis, Barbara W. Hauppauge, NY: Barron's, c2000. (635.03-E); *National Gardening Association Dictionary of Horticulture*. New York: Viking, c1994. (635.03-N); *The New Royal Horticultural Society Dictionary of Gardening*. 4v. London : New York : Macmillan Press ; Stockton Press, c1992. (635.03-N) GR Wall Stacks.

### **Directories**

*Gardening by Mail*. Boston: Houghton Mifflin, 1997. (635.0294-G) A directory of mail-order services/suppliers as well as libraries, organizations, and books.

*The Home Gardener's Source*. Skolnick, Solomon M. New York: Random House, c1997. (635.0296-S); *Gardener's Supply Company Passport to Gardening: A*

*Sourcebook for the 21<sup>st</sup> Century Gardener.* LaLiberte, Katherine. White River Junction, Vt.: Chelsea Green Pub. Co., c1997. (635-L)

### Gardens

*Gardens of the World : the Art and Practice of Gardening.* New York: Macmillan, c1991. (635.9-G) Discusses the different types of gardens (rose, Japanese, tropical, country, public, etc.) and examples of these in various countries.

*Encyclopedia of Gardens: History and Design.* 3v. Chicago: Fitzroy Dearborn, c2001. (712.03-E) Extensive coverage of gardens all over the world.

### Herbs

*Complete Book of Herbs.* Bremness, Lesley. New York: Viking Studio Books, c1988. (635.7-B)

*Complete Book of Herbs and Spices.* Rev. ed. Garland, Sarah. Pleasantville, N.Y.: Reader's Digest Association, c1993. (635.7-G )

*Golden Age of Herbs and Herbalists.* Clarkson, Rosetta E. New York: Dover Publications, c1972. (635.7-C)

*Herbal Home Companion.* Loe, Theresa. New York: Kensington Books, c1996. (635.7-L)

There are reference and circulating books on herbs used for medicinal and other purposes in the Health Information Center. Many of these are found in 615.321 but check LEO catalog to cover all possibilities.

### History

*Flowers in History.* Coats, Peter. Viking Press, c1970. (635.909-C)

"Beginnings of the Flower Garden," Ch. 3, pp. 59-91, *Golden Age of Herbs and Herbalists.* Clarkson, Rosetta E. (635.7-C)

*The Story of Gardening: From the Hanging Gardens of Babylon to the Hanging Gardens of New York.* Wright, Richardson. New York: Dover Publications, 1963, c1934. (635.909-W)

### History – England

*Medieval English Gardens.* McLean, Teresa. New York: Viking Press, 1981, c1980. (635.0942-M)

*The Story of the Royal Horticultural Society, 1804-1968.* Fletcher, Harold R. London: Oxford University Press for the Royal Horticultural Society, 1969. (635.062-F)

### History – America

*A History of Horticulture in America to 1860.* Hedrick, Ulysses P. New York: Oxford University Press, c1950. (635.09-H)

*Early American Gardens; for Meate or Medicine.* Smith, Isadore Leighton Luce. Boston: Houghton Mifflin, [c1970]. (635.097-S)

*Colonial Gardens.* Favretti, Rudy F. Barre, Mass.: Barre Publishers, c1972. (635.0973-F)

*American Gardens of the Eighteenth Century: "For Use or For Delight."* Smith, Isadore Leighton Luce. Boston: Houghton Mifflin, c1976. (635.0974-S)

*American Gardens of the Nineteenth Century: "For Comfort and Affluence."*  
Leighton, Ann. Amherst: University of Massachusetts Press, c1987.  
(635.0973-L)

*The New Traditional Garden: a Practical Guide to Creating and Restoring Authentic American Gardens for Homes of All Ages.* Weishan, Michael. New York: Ballantine Group, c1999. (712.6-W). Another class number but has an "Historic Plant Compendium" of botanical and common names with year each annual, perennial, shrub, tree, or vine was introduced. Also offers sections on "Historic Gardens of Interest to the Old-Garden Enthusiast" and "Suppliers of Period Garden Materials."

#### Organic Gardening

*Dead Daisies Make Me Crazy: Garden Solutions Without Chemical Pollution.*  
Nencarrow, Loren. Berkeley, CA: Ten Speed Press, c2000. (635.0499-N)  
Includes: bibliography of books and magazines, Internet resources, and a "Buying Guide" of services and suppliers.

*The Organic Manual: Natural Gardening for the 21<sup>st</sup> Century.* Garrett, Howard.  
Arlington, Tex.: Howard Press, c2002. (635.0484-R)

*Rodale's All-New Encyclopedia of Organic Gardening: The Indispensable Resource for Every Gardener.* Emmaus, PA. : [New York] : Rodale Press ; Distributed in the book trade by St. Martin's Press, c1992. (635.0484-R)

#### Plants

*American Horticultural Society A-Z Encyclopedia of Garden Plants.* New York: DK Pub., 1997, c1996. (635.903-A)

*Blooms of Bressingham Garden Plants.* Bloom, Alan. London: Harpercollins Publisher, c1992. (635.9-B) "Choosing the best hardy plants for your garden."

#### Tools, Garden

"Early Gardening Tools," Ch. 9, pp. 155-179, *Golden Age of Herbs and Herbalists.*  
Clarkson, Rosetta E. (635.7-C)

*Smith & Hawkin The Tool Book.* Logan, William Bryant. New York: Workman, c1997. (635.9134-L) Garden tools illustrated and discussed.

#### Trees and Shrubs

*Dirr's Hardy Trees and Shrubs: An Illustrated Encyclopedia.* Dirr, Michael.  
Portland, OR: Timber Press, c1997. (635.977-D)

*Dirr's Trees and Shrubs for Warm Climates: An Illustrated Encyclopedia.* Dirr, Michael. Portland, OR: Timber Press, c2002. (635.976-D)

*Diseases of Trees and Shrubs.* Sinclair, Wayne A. Ithaca, N.Y.: Comstock Pub. Associates, c1987. (635.977-S).

*Insects that Feed on Trees and Shrubs.* 2d ed. Johnson, Warren T. Ithaca, N.Y.: Comstock Associates, c1988. (635.977-J)

*Manual of Cultivated Broad-Leaved Trees & Shrubs.* 3v. Krussmann, Gerd.  
Beaverton, OR: Timber Press, in cooperation with the American Horticultural Society, 1984- . (635.97-K)

*Native Trees, Shrubs & Vines.* Cullina, William. Boston: Houghton Mifflin, c2002. (635.977-C) Beautifully illustrated "guide to using, growing, and propagating North America woody plants" arranged by Latin name. Includes appendixes of woody plants organized by suitability for various sites and uses, alternatives to invasive species, nurseries that supply native plants, U.S. and Canadian native plant societies, and botanical gardens and arboreta specializing in native plants.

*New York City Trees: a Field Guide for the Metropolitan Area.* Barnard, Edward S. New York: Columbia University Press, c2002. (635.977-N) Includes "tree walk" maps of city parks and botanical gardens, descriptions and illustrations of trees found in the city, and a "Sources and Resources" section listing relevant books, websites, and organizations.

Online: Trees New York [www.treesny.com](http://www.treesny.com)

### Urban Gardens

*The City Gardener's Handbook: the Definitive Guide to Small-Space Gardening.*

Yang, Linda. North Adams, Mass.: Storey Books, c2002. (635.967-Y)

*Ken Druse's New York City Gardener.* New York: City & Company, c1996. (635-K)

*New City Gardener: Natural Techniques and Necessary Skills for a Successful Urban Garden.* Adam, Judith. Willowdale, Ont.: Firefly Books, c1999. (635.9-A)

Reference sources are available on many more specific topics such as: Annuals, Bulbs, Perennials, Cacti, Diseases and Pests, Grasses, Exotic Plants, Flowers and Wildflowers, House Plants, Indoor Gardening, Orchids, and Roses.

Online: American Horticultural Society [www.ahs.org](http://www.ahs.org)

Horticultural Society of New York [www.hsny.org](http://www.hsny.org)

Royal Horticultural Society [www.rhs.org.uk](http://www.rhs.org.uk)

Metro New York Home & Garden [www.nygardener.com/](http://www.nygardener.com/)

Access to the sites of gardens, garden clubs and other organizations.

Gotham Green Guide [www.gothamgreenguide.com](http://www.gothamgreenguide.com)

Subtitled: New York City gardening & botanical societies. Includes...

Brooklyn Botanical Garden [www.bbg.org](http://www.bbg.org)

Gardener's Resource Center offers public terminals where the facility's plant collections database can be searched. The Library offers access to other, relevant online databases, as well.

GARDENER'S HELP LINE: (718) 623-7270, Tues. – Fri.,

10:30 A.M.- 12:30 P.M. & 2-4 P.M.

New York Botanical Garden [www.nybg.org](http://www.nybg.org)

Plant Information Specialist, LuEsther T. Mertz Library, N.Y. Botanical Garden, Bronx, N.Y. 10458 Focus: Southeastern N.Y. region inquiries.

"Plant identification questions require submission of an adequate specimen of the plant in question."

**PLANT INFORMATION TELEPHONE SERVICE: (718) 817-8681**  
**Operates Mon.-Fri., 9:30 A.M.-12:30 P.M.**  
E-mail questions are also answered as time and staffing allow:  
*pltinfo@nybg.org* (Indicate inquirer's city and state with request.)

The Cornell Cooperative Extension program offers the New York State Master Gardener Program at several area county Extension offices: Nassau, Suffolk, Rockland, and Westchester. See: [www.hort.cornell.edu/gardening/mgprogrm/](http://www.hort.cornell.edu/gardening/mgprogrm/) The suburban Extension programs and sites also offer a great deal more on gardening.

#### **ANIMAL HUSBANDRY (636 – 636.9)**

In this section, you will find a small selection of encyclopedias or other sources on terminology, breeds, and the care of: cats, dogs, horses, aquarium fish, reptiles, and aviary birds. [Veterinary and healthcare books are in Health Information Center.]

*The Naming of Animals: An Appellative Reference to Domestic, Work and Show Animals Real and Fictional.* Room, Adrian. Jefferson, N.C.: McFarland, c1993. (636-R). A wealth of information on all aspects of the names and naming of animals.

#### **HOME ECONOMICS AND FAMILY LIVING (640 - 649)**

Sources on purchasing, maintaining, and managing one's home as well as managing aspects and necessities of daily life, including life outside the home.

*Better Basics for the Home: Simple Solutions for Less Toxic Living.* Berthold-Bond, Annie. New York: Three Rivers Press, c1999. (640-B) Make your own natural cleaners, disinfectants and laundry products; perfumes, body lotions, and hair care products; insecticides; art supplies; and even house paint. Extensive "Sources and Resources" section with web sites and e-mail addresses.

*The Good Housekeeping Household Encyclopedia.* New York: Hearst Books, c1993. (640-G); *Householder's Survival Manual.* Pleasantville, NY: Reader's Digest Association, c1999. (640-H) "How to take care of everything in your home." *10,000+ Practical Hints and Tips.* Lincolnwood, IL: Publications International, c1993. (640-T)

**Food, Beverages, Cookery, Table Service and Entertaining**  
Encyclopedias and reference books on food (641.03, 3's), wines (641.2's), beer (641.23), whisky (641.252), cookery (641.5's) and table service (642's) can be found in this section.

#### **Major Works**

*Larousse Gastronomique.* New York: Clarkson Potter, c2001. (641.3003-L)  
*The Visual Food Encyclopedia.* New York: Macmillan, c1996. (641.3003-V)  
*The World Encyclopedia of Food.* Coyle, L. Patrick. New York, N.Y.: Facts on File, c1982. (641.0321-C)

### Buying Guides

- The Organic Foods Sourcebook*. Lipson, Elaine. Chicago: Contemporary Books, c2001. (641.302-L) "Resources" section includes "Farmers Markets, Community-Supported Agriculture, and Food Co-ops."
- Zagat New York City Marketplace Survey*. New York: Zagat Survey. (641.3109-Z)  
"A directory of food stores, caterers, party sites, cafes." [GR Desk]

### Dictionaries & Derivation

- The Dictionary of American Food and Drink...* Mariani, John F. New York: Hearst Books, c1994. (641.5973-M)
- Ladyfingers & Nun's Tummies: A Lighthearted Look at How Foods Got Their Names*. Barnette, Martha. New York: Times Books, c1997. (641.014-B)
- Webster's New World Dictionary of Culinary Arts*. 2d ed. Labensky, Steven. Upper Saddle River, NJ: Prentice Hall, c2001. (641.03-L) Useful appendices include various measurement equivalents and a chart of "Commonly Used International Terms."

### Food and Drink-History

- Food: An Authoritative and Visual History and Dictionary of the Foods of the World*. Root, Waverly. New York: Simon and Schuster, c1980. (641.0321-R)
- Food: A Culinary History From Antiquity to the Present*. New York: Columbia University Press, c1999. (641.309-F)
- The Food Chronology: A Food Lover's Compendium of Events and Anecdotes from Prehistory to the Present*. Trager, James. New York: Henry Holt, c1995. (641.09-T)
- Food in History*. New ed. Tannahill, Reay. New York: Crown Publishers, 1989, c1988. (641.3009-T)
- Drink, a Social History of America*. Barr, Andrew. New York: Carroll & Graf, c1999. (641.209-B)
- Short History of Wine*. Phillips, Roderick. New York: Ecco, c2000. (641.2209-P)  
Covers both the history of winemaking and the social aspects of drinking wine.
- Straight Up or On the Rocks: the Story of the American Cocktail*. Grimes, William. New York: North Point Press, c2001. (641.874-G)

### Cookery

- Cooking A to Z: The Complete Culinary Reference Tool*. Horn, Jane. San Rosa, CA: Cole Group, c1992. (641.503-H)
- Kitchen Science: A Compendium of Essential Information for Every Cook*. Hillman, Howard. Boston, Mass.: Houghton Mifflin, c1981. (641-H)

### Cooking Tools and Implements

- The New Cook's Catalogue*. New York: Alfred Knopf, c2000. (641.5028-N) All the necessary tools, utensils, and accessories are illustrated and usage is described. (Look for coverage of kitchen items in the 683.82 section also.)

## Classic Reference Cookbooks

### Historic:

*Beeton's Book of Household Management*. New York: Farrar, Straus and Giroux, 1977, c1968. (641.5942-B) Reprinted "bible" used in nineteenth century homes; originally published in England, c1861.

### Modern Classics:

*Joy of Cooking*. Rev. ed. Rombauer, Irma S. New York: Scribner, c1997. (641.5973 R)

*The Fannie Farmer Cookbook*. 13<sup>th</sup> ed. New York, etc.: Knopf, 1996. (641.5-F)

## Other Cookbooks

*Great Books for Cooks*. Wyler, Susan New York: Ballantine Books, c1999. (016.6415-W) "An expert guide to five hundred fabulous cookbooks—from Julia Child to Emeril Lagasse..."

*Old Cook Books: An Illustrated History*. Quayle, Eric. New York: Dutton, c1978. (641.509-Q)

*What's Cooking in Multicultural America: An Annotated Bibliographic Guide to Over Four Hundred Ethnic Cuisines*. Wertsman, Vladimir. Latham, MD: Scarecrow Press, c1996. (016.6415-W)

## Alcoholic and Non-Alcoholic Drink Recipes

*The New York Bartender's Guide*. Rev. ed. New York: Black Dog & Leventhal, c1997. (641.874-N); *The Mocktail Bar Guide...* Thomas, Frank. (641.875-T)

### Reference Sources for the Professional:

*Chef's Book of Formulas, Yields, and Size*. Schmidt, Arno. New York, N.Y.: Van Nostrand Reinhold, c1990. (641.57-S); *Large Quantity Recipes*. 4<sup>th</sup> ed. Terrell, Margaret E. New York: Van Nostrand Reinhold Co., c1989 (641.57-T); *Wenzel's Menu Maker*. 2d ed. New York: Van Nostrand Reinhold, c1979. (641.572-W)

*Knight's Foodservice Dictionary*. New York: Van Nostrand Reinhold Co., c1987. (642.0321-K)

*The Professional Chef*. 7<sup>th</sup> ed. [Culinary Institute of America.] New York: Wiley, c2002. (641.57-P)

*Professional Table Service*. Meyer, Sylvia New York: Van Nostrand Reinhold, 1991. (642.6-M); *Tabletop Presentations: A Guide for the Foodservice Professional*. Mills, Irving J. New York: Van Nostrand Reinhold, c1989. (642.7-M)

## Table Service

*The Art of the Table: A Complete Guide to Table Setting, Table Manners, and Tableware*. von Drachenfels, Suzanne. New York: Simon & Schuster, c2000. (642.7-V)

## House, Co-op, and Condo Buying and Selling

*Co-op Bible: Everything You Need to Know About Co-ops and Condos: Getting In, Staying In, Surviving, Thriving*. Shapiro, Sylvia. New York: St. Martin's Griffin, c1998. (643.2-S)

*How to Buy a Condominium or Townhome.* 2d ed. Leiter, Erwin E. Naperville, IL: Sphinx Pub., c2001. (643.12-L)

*Kiplinger's Buying & Selling a Home.* 7<sup>th</sup> ed. Washington, D.C.: Kiplinger Washington Editors, c2002. (643.12-K)

*Your New House.* 4<sup>th</sup> ed. Boulder, CO: Winter Peak Press, 2002. (643.12-Y)  
"The alert consumer's guide to buying and building a quality home."

#### Home Repair, Remodeling, and Renovation

*Encyclopedia of Home Maintenance & Repair.* Spence, William P. New York: Sterling Pub., c2000. (643.7-S)

#### Sewing and Dressmaking

*Fabric Savvy: The Essential Guide for Every Sewer.* Betzina, Sandra. Newtown, CT: Taunton Press, c1999. (646.11-B)

*Reader's Digest Complete Guide to Sewing.* Pleasantville, NY: Reader's Digest Association, c1978. (646-R) [New ed. on order.]

*Simplicity's Simply the Best Sewing Book.* New York: Perennial Library, c1988. (646.4304-S)

#### Beauty Culture

*Milady's Standard: Cosmetology* New York: Thomson/Delmar Learning, c2002. (646.72-M)

#### Retirement

*Retirement Places Rated.* 5<sup>th</sup> ed. New York: Macmillan, c1999. [Catalog open entry: Rand McNally] (646.7905-R)

*Retiring Right: Planning for a Successful Retirement.* Kaplan, Lawrence J. Garden City Park, NY: Square One Publishers, 2002. (646.79-R)

**BARS, NIGHTLIFE, RESTAURANTS, HOTELS & MOTELS, INNS, B&B'S, HOSTELS, TENT AND RV CAMPGROUNDS...647.9402-647.9945's**

[Note: Travel guides are generally found at 910-919. See the GR pathfinder entitled "Planning Your Trip at the Mid-Manhattan Library" for more information.]

#### History

*On the Town in New York: The Landmark History of Eating, Drinking, and Entertainments from the American Revolution to the Food Revolution.* Rev. ed. Batterberry, Michael. New York: Routledge, c1999. (647.9574-B)

#### Guides

*New York City Restaurants.* Annual. New York: Zagat Survey. (647.9574-N)

*Zagat Survey: New York City Nightlife.* New York: Zagat Survey. (647.9574-Z)

"Covering over 1,100 bars, clubs and lounges." Both: GR Desk.

#### Guides – Hotels/Motels

*Hotel & Travel Index.* Quarterly. New York, etc.: Ziff-Davis Pub. Co., Public Transportation and Travel Division, etc. International; gives name of owner

or manager in charge. [12 months available at Periodicals Counter, 4<sup>th</sup> floor.] *BTP Business Travel Planner: North America*. Quarterly. Secaucus, N.J.: Cahners Business Information, c2001-. (917.304-B) Although a services section classifies this in travel, it is a directory of hotels/motels throughout North America, arranged by city. It is the successor of the *Hotel Motel Redbook*. GR Desk. Other guides to restaurants, bars, hotels/motels, hostels, campgrounds, etc. are at the GR Desk, Ready Reference, or the regular shelves in the 647's.

#### Cleaning and Stain Removal

*The Green Book of Household Hints: Keeping an Efficient and Ecologically Sound Home*. Harris, Marjorie, gardener. Buffalo, N.Y.: Firefly Books, c2001.

(648.5-H)

*How to Clean and Care for Practically Anything*. Yonkers, N.Y.: Consumer Reports Special Publications, c2002. (648.5-H)

#### Household Moving

*Steiner's Complete How-to Move Handbook*. Rev., 2d ed. Steiner, Clyde. San Francisco, CA: IIP Consumer Services, c1999. (648.9-S) Appendix includes "A Listing of National, International Telephone & Internet Contact Sources."

### MANAGEMENT OF BUSINESSES AND ORGANIZATIONS; AUXILIARY SERVICES (650 – 659)

GR has very few sources on management and advertising reference. Business directories are located in the Job Information Center.

*International Encyclopedia of Business and Management*. 6v. New York: Routledge, c1996. (650.03-I) Location: GR Wall Stacks.

#### Office Services

*Merriam-Webster's Guide to Business Correspondence*. 2d ed. Springfield, Mass.: Merriam-Webster, c1996. (651.75-M) Grammar and style rules plus a large section of sample business letters for various purposes.

*Standard Handbook for Secretaries*. 8<sup>th</sup> ed. Hutchinson, Lois I. McGraw-Hill, c1969. (651.374-H) A "bible" for grammar. GR Desk, Ready Reference, and regular shelves.

#### Management Use of Meetings

*Guide to Meetings*, (658.456-M) and *The Minute Taker's Handbook*, (658.456-W) [See also Parliamentary Procedure, 060.4]

#### Book Publishing Business

*Literary Market Place*. Annual. Bowker, 1940-. (655.4025-L) GR Ready Reference. Lists publishers and services/suppliers to the book trade. History: *Imprints on History. Book Publishers and American Frontiers*. (655.473-S), *Book Publishing in America*. (655.473-M), and *Printing in the Americas*. (655.17-O). Important sources on publishing and printing in the past.

### Advertising and Public Relations

*Advertising in America: The First 200 Years.* Goodrum, Charles A. New York: H.N. Abrams, c1990. (659.1097-G) Copiously illustrated history.

*Twenty Ads that Shook the World: The Century's Most Groundbreaking Advertising and How it Changed Us All.* Twitchell, James B. New York: Crown Publishers, c2000. (659.1-T) "The Rise of the Infomercial" and everything from "Pears Soap" to the "Marlboro Man" and "LBJ vs. Goldwater."

### CHEMICAL ENGINEERING AND RELATED TECHNOLOGIES: (660 – 669)

*Chem Sources-U.S.A. Annual.* Flemington, N.J.: Directories Publishing Co. (661.0025-C) Chemicals A-Z with manufacturers; directory of manufacturers.

*Dictionary of Ceramics.* 3d ed. Dodd, A.E. London: Institute of Materials, c1994. (666.03-D)

*Farm Chemicals Handbook.* Annual. Willoughby, OH: Meister Pub. Co. (668.605-F) Includes: fertilizer dictionary; crop protection chemicals, biopesticides, organics; regulatory info.; a buyer's guide and suppliers directory.

*Encyclopedia of Food Science and Technology.* 1<sup>st</sup> ed., GR Wall Stacks; *Foods and Food Production Encyclopedia.* 2v. c1982. (664.0032-F)

*Metals Handbook.* Desk ed. Metals Park, OH: American Society for Metals, [1984], c1985. (669-M); *Smithells' Metals Reference Book.* 7<sup>th</sup> ed. (669.0021-S)

### MANUFACTURING (670-)

*How Products are Made.* Detroit: Gale Research, c1994-. (670-H) Each volume in series describes manufacturing processes, and gives information on, each product covered. Currently, GR has first two volumes.

### MANUFACTURE OF PRODUCTS FROM SPECIFIC MATERIALS: (671 - 679)

Metalworking and Primary Metal Products (671); Paper (676); Textiles (677)

### MANUFACTURE OF PRODUCTS FOR SPECIFIC USES (680 – 688)

Clocks and Watches (681.1); Hardware (683), Kitchen Utensils (683.82)

[Note: Hardware includes tools; for tools themselves, see 621.9; carpentry tools, 684.08; garden tools, 635.9134.]

Small Firearms (683.4); Printing and Related Activities (686), includes "Types and Type-founding;"

Clothing (687) [*History of Hosiery.* (687.309-G)]; Dolls and Toys (688.72)

### BUILDINGS, CONSTRUCTION: (690- ) [Very few sources.]

*Building Estimator's Reference Book.* (692.5-B); *The Building of Manhattan.*

Mackay, Donald M. New York: Harper & Row, c1987. (690.0974-M); *Construction Glossary: An Encyclopedic Reference and Manual.* 2d ed. Stein, J. Stewart. New York: Wiley, c1993. (690.03-S); *Mastering Math for the Building Trades.* Gerhart, James. New York: McGraw-Hill, c2000. (690.0151-G).

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