

RECOMMENDED REFERENCE RESOURCES

XIII. SCIENCE AND TECHNOLOGY

A. GENERAL SCIENCE/TECHNOLOGY ENCYCLOPEDIAS (*no more than 5 years old*)

Gale Encyclopedia of Science. Lee K. Lerner and Brenda Wilmoth Lerner, eds. 4th ed. Gale Group, 2007. \$685.00.

Growing Up With Science. 3rd ed. Marshall Cavendish Corporation, 2006. \$685.00.

Kingfisher Science Encyclopedia. Larousse Kingfisher Chambers, 2006. \$24.95.

McGraw-Hill Concise Encyclopedia of Science and Technology. 5th ed. McGraw-Hill, 2005. \$185.00.

McGraw-Hill Encyclopedia of Science and Technology. 10th ed. McGraw-Hill, 2007. 20 vols. \$3,495.00.

New Book of Popular Science. Herbert Kondo, ed. Grolier Educational Inc., 2006. 6 vols. \$279.00. Also electronic. <http://www.grolier.com> subscription.

Van Nostrand's Concise Encyclopedia of Science. Alan Axelrod and Christopher Gordon De Pree, eds. J. Wiley, 2003. \$40.00.

Van Nostrand's Scientific Encyclopedia. Glenn D. Considine et al., eds. 10th ed. Wiley-Interscience, 2008. 3 vols. \$395.00.

B. GENERAL SCIENCE DICTIONARIES (*no more than 5 years old*)

American Heritage Science Dictionary. Houghton Mifflin, 2005. \$19.95.

A Dictionary of Science. John Daintith and E. A. Martin, eds., 5th ed. Oxford University Press, 2005.

McGraw-Hill Dictionary of Scientific and Technical Terms. Sybil P. Parker, ed. 6th ed. McGraw-Hill, 2002. \$150.00. (new edition every 8 years)

C. BIOGRAPHICAL ENCYCLOPEDIAS OF SCIENTISTS

Biographical Dictionary of Scientists. David Abbott, ed. Bedrick Books, 1984-86. 6 vols. o.p.

Biographical Dictionary of Scientists. Roy Porter. 3rd ed. Oxford University Press, 2000. \$125.00.

Cambridge Dictionary of Scientists. 2nd ed. Cambridge University Press, 2002. \$20.00.

Concise Dictionary of Scientific Biography. American Council of Learned Societies, ed. 2nd ed. Scribner, 2000. \$191.00.

Grolier Library of Science Biographies. Grolier, 1996. 10 vols. \$334.00.

New Dictionary of Scientific Biography. Gale Group, 2008. \$995.00.

Notable Scientists from 1900 to the Present. Brigham Narins, ed. Gale Group, 2001. 5 vols. \$395.00.

Science And Scientists. Magill's Choice, 2006. 3 vols. \$217.00.

D. GUIDES TO THE HISTORY OF INVENTIONS

Asimov's Chronology of Science & Discovery: How Science Has Shaped the World & How the World Has Affected Science from 4,000,000 B.C. to the Present. Isaac Asimov. Harper Collins, 1994. \$39.00.

The Facts On File Chronology Of Science. Lisa Rezende. Facts on File, 2006. \$75.00.

Gadgets and Necessities: An Encyclopedia of Household Innovations. Pauline Webb and Mark Suggitt. ABC-CLIO, 2000. \$75.00. o.p.

Historical Inventions on File. Facts on File, 1994. \$185.00.

Science of Everyday Things. Judson Knight and Neil Schlager, eds. Gale Group, 2002. 4 vols. \$443.00.

Scientific American Inventions and Discoveries: All the Milestones in Ingenuity-From the Discovery of Fire to the Invention of the Microwave Oven. Rodney Carlisle, Ph.D. John Wiley & Sons Inc, 2004. \$40.00.

World of Invention. Kimberly A. McGrath and Bridget Travers, eds. 2nd ed. Gale Group, 2001. \$115.00.

E. HANDBOOKS OF MATHEMATICS AND SCIENCE

Building Blocks of Matter: A Supplement to the Macmillan Encyclopedia of Physics. John S Rigden. Macmillan, 2003. \$170.00.

Chemical Elements.com. <http://www.chemicalelements.com>

CRC Handbook of Chemistry and Physics. CRC Press, annual. \$149.95.

CRC Standard Mathematical Tables and Formulae. Daniel Zwillinger. CRC Press, biennial. \$59.95.

Elements. John Emsley. 3rd ed. Oxford University Press, 1998. \$34.95.

Guide to the Elements. Albert Stwertka. Oxford University Press, 2002. \$37.50.

Handbook of Mathematical Tables and Formulas. Richard Stevens Burlington. 5th ed. McGraw-Hill, 1973. \$117.50. o.p.

History and Use of Our Earth's Chemical Elements. Robert E. Krebs, ed. 2nd ed. Greenwood Press, 2006. \$75.00.

Macmillan Encyclopedia of Chemistry. J.J. Logowski, ed. Macmillan, 1997. 4 vols. \$583.00.

Macmillan Encyclopedia of Physics. John S. Rigden, ed. Macmillan, 1996. 4 vols. \$475.00.

Math.com. (Glossary) <http://www.math.com/school/glossary/glossindex.html>

Van Nostrand's Encyclopedia Of Chemistry. Glenn D. Considine. 5th ed. Wiley-Interscience, 2005. \$215.00.

F. **DICTIONARIES OR ENCYCLOPEDIAS OF COMPUTERS (*no more than 2 years old*)**

Dictionary of Computer and Internet Terms. Douglas Downing, et al. 9th ed. Barron's, 2006. \$11.95.

Encyclopedia of Computer Science and Technology. Harry Henderson. 2nd ed. Facts On File, 2008. \$87.50.

The Facts on File Dictionary of Computer Science. John Daintith and Edmund Wright, eds. rev. ed. Facts On File, 2006. \$49.50.

G. **GUIDES TO TREES AND PLANTS**

Endangered and Threatened Species of Illinois: Status and Distribution. Vol. 1 Plants. Illinois Endangered Species Protection Board. 815-273-3184. 2002. Free. Also electronic list:
<http://dnr.state.il.us/espb/datelists.htm>

Field Guide to Trees and Shrubs: Northeastern and North-Central United States and South-Eastern and South-Central Canada. George A. Petrides. 2nd ed. Houghton-Mifflin, 1973. \$19.00.

Forest Trees of Illinois. Robert H. Mohlenbrock. 8th ed. Illinois Department of Natural Resources, 1996. \$8.00. o.p.

Illustrated Encyclopedia of Trees. David More and John White. 2nd ed. Timber Press. \$79.95.

National Audubon Society Field Guide to North American Trees: Eastern Edition. Elbert Luther Little. Knopf, 1980. \$19.95.

National Geographic Field Guide to the Trees of North America. Keith Rushforth and Charles Hollis. National Geographic Society, 2006. \$17.95.

Plants of the Chicago Region. Gerould Wilhelm, ed. 4th ed. Indiana Academy of Science, 1994. 317-415-2903. \$48.90.

Simon & Schuster's Guide to Trees. Mariello Pizzetti and Stanley Schuler, eds. Fireside, 1978. \$16.00.

Trees: A Guide to Familiar American Trees. Herbert Zim and Alexander C. Martin. Rev. ed. St. Martin's Press, 2001. \$6.95.

Trees of North America. Alan Mitchell. Thunder Bay Press, 2003. \$14.98.

H. GUIDES TO ANIMAL SPECIES

Birds of Chicago Including NE Illinois & NW Indiana. Chris C. Fisher and David B. Johnson. Lone Pine Publications, 1997. \$9.95.

Birds of Illinois: Field Guide. Stan Tekiela. Adventure Publications, 1999. \$12.95.

Encyclopedia of Animal Behavior. Marc Bekoff. Greenwood Press. 2004. \$367.49.

Endangered and Threatened Species of Illinois: Status and Distribution. Vol. 2 Animals. Illinois Endangered Species Protection Board, 2002. 815-273-3184. Also electronic:
<http://dnr.state.il.us/espb/dataset.htm>

Grolier Illustrated Encyclopedia of Animals. Grolier, 1994. 4 vols. \$135.00.

Grzimek's Animal Life Encyclopedia. Gale Group, 2004. 17 vols. \$1,595.00.

Grzimek's Encyclopedia of Mammals. McGraw-Hill, 1990. 5 vols. \$475.00. o.p.

International Wildlife Encyclopedia. Maurice Burton and Robert Burton, eds. 3rd ed. Marshall Cavendish, 2002. \$785.65. o.p.

Magill's Encyclopedia of Science: Animal Life. Carl W. Hoagstrom, ed. Salem Press, 2002. 4 vols. \$435.00.

Mammals of Illinois. Donald Frederick Hoffmeister. University of Illinois Press, 2002. \$34.95.

National Geographic Encyclopedia of Animals. National Geographic Society Children's Books, 2006. \$38.90.

I. VETERINARY HANDBOOKS

Merck Veterinary Manual. Cynthia M. Kahn and Scott Line, eds. Merck, 2005. \$45.00.