

# 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. 4<sup>th</sup> ed. Gale Group, 2007. \$685.00.

*Growing Up With Science*. 3<sup>rd</sup> ed. Marshall Cavendish Corporation, 2006. \$685.00

*The 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*. 10<sup>th</sup> 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. 10<sup>th</sup> ed. Wiley-Interscience, 2008. 3 vols. \$395.00.

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

*The 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. 3<sup>rd</sup> ed. Oxford University Press, 2000. \$125.00.

*Cambridge Dictionary of Scientists*. 2<sup>nd</sup> ed. Cambridge University Press, 2002. \$20.00.

*Concise Dictionary of Scientific Biography*. American Council of Learned Societies staff, ed. 2<sup>nd</sup> 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. 2<sup>nd</sup> 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. 3<sup>rd</sup> 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. 5<sup>th</sup> ed. McGraw-Hill, 1973. \$117.50. o.p.

*History and Use of Our Earth's Chemical Elements*. Robert E. Krebs, ed. 2<sup>nd</sup> 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. 5<sup>th</sup> 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. 9<sup>th</sup> ed. Barron's, 2006. \$11.95.

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

*The Facts on File Dictionary of Computer Science*. John Daintith, Edmund Wright, eds. rev. 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 Shrub: Northeastern and North-Central United States and South-Eastern and South-Central Canada*. George A. Petrides. 2<sup>nd</sup> 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.

*The Illustrated Encyclopedia of Trees*. David More, John White. 2nd. 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, 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/datelist.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. 3<sup>rd</sup> 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, Scott Line, Ph.D., eds. Merck, 2005. \$45.00.