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How Life Learned to Live: Adaptation in Nature — Helmut Tributsch, translated by Miriam Varon. An account of the world of biophysics. Tells of the ingenious means plants and animals have devised to turn the principles of physics and engineering to their advantage in the struggle to adapt and survive. Published in hardback in 1982. MIT Pr, 1985, 218 p., paper, \$7.95.

Investing in Children — William U. Chandler. A lack of education, clean water and family planning claims the lives of ten times as many Third World children as actual famine, says this study by the Worldwatch Institute. (See SN: 7/6/85, p. 9.) Worldwatch Inst, 1985, 66 p., charts & graphs, paper, \$4.

Optimum Brain Power: A Total Program for Increasing Your Intelligence — Miriam Ehrenberg and Otto Ehrenberg. Most people are not as intelligent as they could be because they use only a fraction of their intellectual capacities, say the authors, who are psychologists. "Practicing working with your brain," they write, "will enable you to use your latent talents." Each chapter of this book covers a different aspect of intelligence, tells how the process works and gives exercises for developing that particular facet. Dodd, 1985, 250 p., illus., \$15.95.

Penicillin: Meeting the Challenge — Gladys L. Hobby. This is the story of the development of penicillin as a therapeutic agent and the hundreds of people who worked together "to raise it from a laboratory curiosity to the first of a remarkable series of highly effective chemotherapeutic drugs." It is the story of "one of the greatest ventures in group research that has ever been conducted," says the author, who was an active participant in the venture. Yale U Pr, 1985, 319 p., color/b&w illus., \$32.50.

Powers of Ten: A Book about the Relative Size of Things in the Universe and the Effect of Adding Another Zero — Philip and Phylis Morrison and the Office of Charles and Ray Eames. An adventure in magnitudes, an excursion across the universe from its largest known dimension (10^{25} meters) to its smallest (10^{-16} meters). Based on the film "Powers of Ten," the book uses color illustrations in its journey through the 42 orders of magnitude linking galaxies, the solar system, earth, lakes, humans, fingerprints, atoms and quarks. Originally published in hardback in 1982. Scientific American Bks (WH Freeman), 1985, 164 p., color/b&w illus., \$19.95.

Seawatch: The Seafarer's Guide to Marine Life — Paul V. Horsman. Begins with a general introduction to the environment of the sea and then examines every major group of marine life from microscopic plants and animals to whales. Contains tips to aid in identifying different species and pointers on collecting and preserving them. Worldwide distribution maps for many species are included. Facts on File, 1985, 256 p., color/b&w illus., \$19.95.

Troubled Skies, Troubled Waters: The Story of Acid Rain — Jon R. Luoma. Acid rain is very much a political question, for it involves problems that traverse state and national boundaries both in the Western Hemisphere and in Europe. "The fact that the sources of the polluting elements that create acid rain are located in areas least harmed by it and that its effects are most visited on areas of pristine wilderness far from urban centers is at the heart of the controversy," says the author. Originally published in hardback by Viking Press in 1984. Penguin, 1985, 178 p., paper, \$5.95.

Wheels, Life and Other Mathematical Amusements — Martin Gardner. A collection of problems, paradoxes, games and puzzles selected from Gardner's columns in SCIENTIFIC AMERICAN, for those who enjoy recreational math and games. Three chapters deal with John Conway's fantastic game of Life. Originally published in hardback in 1983. WH Freeman, 1985, 261 p., illus., paper, \$9.95.

World Oil: Coping with the Dangers of Success — Christopher Flavin. In 10 to 15 years the world may once again be dependent on Mideast oil producers, suggests this Worldwatch Institute report. (See SN: 8/3/85, p. 68.) Worldwatch Inst, 1985, 66 p., charts & graphs, paper, \$4.

You're Smarter Than You Think: At Least 500 Fun Ways to Expand Your Own Intelligence — Linda Perigo Moore. A discussion of the gifted adult is followed by tests, exercises, puzzles, games and brain teasers that deal with the skills of memory, reasoning and organization. A section is devoted to increasing one's creativity. HR&W, 1985, 254 p., paper, \$9.95.

Scientific Illustration

A Guide for the Beginning Artist

By Zbigniew T. Jastrzebski, *senior scientific illustrator, Field Museum of Natural History, Chicago*

Prentice-Hall, 1985, 319 pages, 11" x 8½", paperback, \$24.95

Scientific Illustration introduces you to the technical aspects of drawing and painting any subject matter—whether it be pottery shards or a grain of pollen. Emphasizing that scientific illustration is an art in the service of science, this book directly involves you in both observation and the transportation of the subject to paper. It covers every phase of drawing for a specific, professional purpose and includes:

- A clear explanation of the drawing and painting process
- Descriptions of basic techniques and tools
- A detailed discussion of the precise steps leading to a finished rendering
- Projects to feature in your portfolio
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