

Books

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The Bicycle: Vehicle for a Small Planet—Marcia D. Lowe. This Worldwatch Institute study details how and why "more people depend on the bicycle for private transportation than any other vehicle." Outlines the costs and benefits of bicycle travel to the environment, the economy and individuals; how public policy can facilitate cycling; and why the bicycle seems the best alternative to mass transit in developing nations. Worldwatch, 1989, 62 p., charts, paperback, \$4.00.

From Quarks to the Cosmos: Tools of Discovery—Leon M. Lederman and David N. Schramm. A prominent physicist and a cosmologist explain how experiments and theoretical predictions developed in each of these disciplines provide clues and solutions to problems in the other—and how these converging fields may someday produce a "theory of everything." They describe current concepts of space, time, matter and fundamental forces, exploring what these views reveal about the formation of the universe. The authors show how new instruments have led to new ideas and preview the tools being developed for research in the 1990s, including the space telescope, a giant underground neutrino observatory and the Superconducting Super Collider. W H Freeman, 1989, 242 p., color & b/w illus., hardcover, \$32.95.

Global Warming: Are We Entering the Greenhouse Century?—Stephen H. Schneider. This climatologist relates for the general reader the basic issues and policy implications of global atmospheric change. He explains the science and policy of the greenhouse effect, the Earth's climate history, the theory that the Earth tends to stabilize its climate, various climate models, media coverage of climate news and the possible impact of rising temperatures in the future. Extensive end notes provide technical information. Sierra, 1989, 317 p., hardcover, \$18.95.

The Hominid Gang: Behind the Scenes in the Search for Human Origins—Delta Willis, introduction by Stephen Jay Gould. "The Hominid Gang" is a group of Africans trained in the art of fossil finding who work primarily in Kenya's Rift Valley. Willis looks beyond the usual newsmaking names in paleoanthropology to focus on the hundreds of discoverers and explorers, geologists, curators and preparators who are invaluable in making new hominid discoveries. Viking, 1989, 351 p., color/b&w illus., hardcover, \$21.95.

The Microverse—Byron Preiss, Ed. A group of beautifully illustrated essays about the relationship between the microscopic world and the universe, written for the lay reader by leading physicists and science fiction authors. Each section, such as "The Genetic Code" or "The Four Forces," contains a scientific essay followed by a science fiction speculation. Fascinating fact and fantasy. Bantam, 1989, 352 p., color/b&w illus., hardcover, \$29.95.

On the Wing: The Life of Birds, From Feathers to Flight—Bruce Brooks. Birds' strangeness is what fascinates humans, the author contends. In this beautifully illustrated book, he "constructs" a bird from scratch, exploring how the parts work together as a whole to accomplish flight, feeding, mating and migration. Brooks reveals an animal of intelligence and grace that is not so mysterious once the reasons behind its behavior are explained. Scribner, 1989, 190 p., color illus., hardcover, \$35.00.

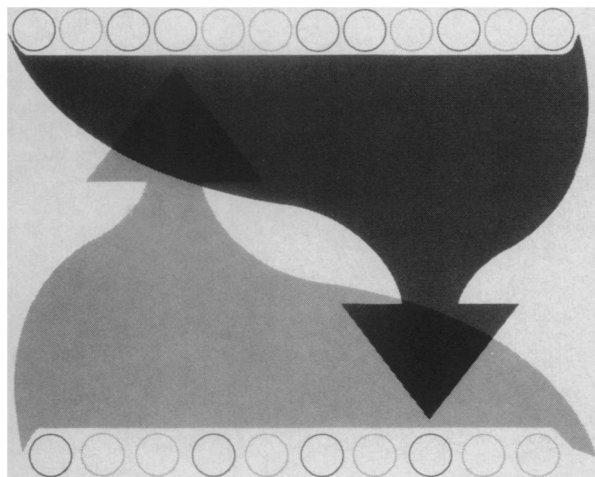
The Times Atlas and Encyclopaedia of the Sea—Alastair Couper, Ed. Updated to cover every aspect of the ocean environment (from life at the bottom of the sea to the ocean-atmosphere system), ocean resources (from natural gas and oil to worldwide fish supplies) and ocean management (from pollution control to recreational use and conservation of species). More than 600 full-color maps, photographs and illustrations complement the text, which includes the writings of 28 contributors. Original edition published in 1983 as *The Times Atlas of the Oceans*. Har-Row, 1989, 272 p., color & b/w illus., hardcover, \$59.95.

Webster's New World Dictionary of Mathematics—William Karush. Designed for readers with some understanding of mathematics, this reference book defines terms used in topics ranging from algebra and trigonometry to more advanced areas such as calculus, logic, computer sciences and information theory. S&S, 1989, 317 p., charts & diagrams, paperback, \$11.95.

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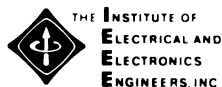
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