

## Books

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**The Cosmic Blueprint: New Discoveries in Nature's Creative Ability to Order the Universe** — Paul Davies. A new model of the creative universe emphasizes, according to the preface, the collective, cooperative and organizational aspects of nature; the model's perspective is synthetic and holistic rather than analytic and reductionist. Writing for the general reader, Davies reports on new research in many scientific disciplines, from astronomy to biology, from physics to neurology — wherever complexity and self-organization appear. Originally published in hardcover in 1988. S&S, 1989, 223 p., illus., paperback, \$8.95.

**Did Darwin Get It Right? Essays on Games, Sex and Evolution** — John Maynard Smith. This collection of short essays by a British biologist and science writer addresses some key questions of modern biology for both the general reader and scientist. The author explores such questions as: How did life begin? Does the brain work like a computer? Why do most animals and plants reproduce sexually? How did social behavior evolve if natural selection favors selfishness? Chapman & Hall, 1989, 264 p., hardcover, \$22.95.

**Hosting the Birds: How to Attract Birds to Nest in Your Yard** — Jan Mahnken. Illustrated with many charts and tables, this book gives tips on the preferred foods, garden plants, shelter and landscape features of more than 170 bird species that nest in the United States and Canada. Storey Comm Inc., 1989, 208 p., paper, \$10.95.

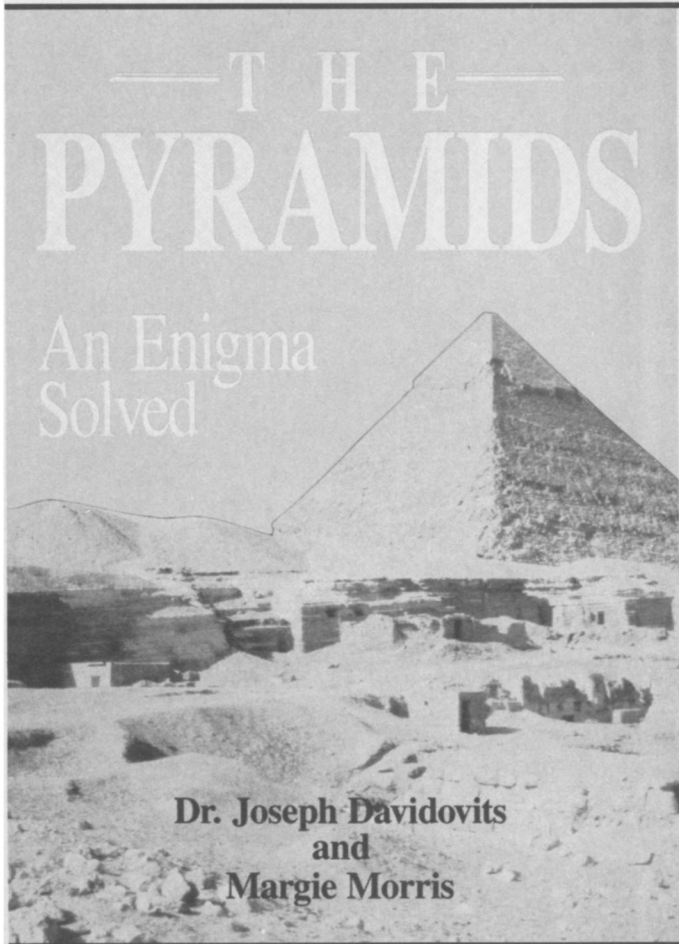
**How the World Works: A Guide to Science's Greatest Discoveries** — Boyce Rensberger. This book, according to the author, is for people who did not become scientists but who retain a fascination for the world around them. After a discussion of what science is, this science writer synthesizes 24 major scientific theories that shape our view of the natural world. He goes on to explain in detail a number of scientific terms that appear frequently in popular articles about current research. Originally published in hardcover in 1986. Morrow, 1988, 378 p., illus., paperback, \$7.95.

**Mind Matters: How Mind and Brain Interact to Create Our Conscious Lives** — Michael S. Gazzaniga. A summary of what is current in brain research, written for the general reader by a leading U.S. neuroscientist. Begins by outlining brain mechanisms and goes on to explore mind states and how they interact with brain states, spelling out the implications for a variety of mental states, such as pain, depression, addiction, love and stress. Other topics discussed include memory and thinking after age 40, intelligence, schizophrenia, obsessions and compulsions and healing. Includes an annotated bibliography. Originally published in hardcover in 1988. HM, 1989, 255 p., paperback, \$8.95.

**The Nature of Time** — Raymond Flood and Michael Lockwood, Eds. A collection of essays that brings together some of the latest thinking about time, in both philosophy and modern physical science. The authors address the directionality of time as well as the future in relation to the past, viewing time from the standpoints of Einstein's theory of relativity, modern thermodynamics, cosmology and quantum theory. Originally published in hardcover in 1987. Basil Blackwell, 1988, 187 p., illus., paperback, \$11.95.

**Particle Physics in the Cosmos** — Richard A. Carrigan, Jr. and W. Peter Trower, Eds. A collection of articles from *SCIENTIFIC AMERICAN*, 1974-1986, tying developments in particle physics to the universe. Excellent color drawings and diagrams help to elucidate even the most complex concepts for the general reader or scientist. A *Readings from Scientific American Magazine* book. W H Freeman, 1989, 228 p., color/b&w illus., paperback, \$9.95.

**The Science of AIDS**. A collection of 11 articles from the October 1988 *SCIENTIFIC AMERICAN* on all aspects of AIDS. Contributors — including Robert Gallo, Luc Montagnier, William A. Haseltine and Max Essex — relate information such as the origin of the AIDS virus, AIDS therapies, the virus' molecular biology and prospects for AIDS vaccines. Color illustrations, diagrams and maps complement the accessible text. A *Readings from Scientific American Magazine* book. W H Freeman, 1989, 135 p., color/b&w illus., paperback, \$9.95.



The pyramids of Egypt have remained one of the oldest and most puzzling mysteries of mankind. The traditional theory explaining that long lines of workers hoisted and dragged massive blocks up enormous ramps does not adequately address the hazards and complexities that make such an operation highly unlikely, especially since hundreds of the largest blocks in the pyramids are situated at great heights. The uncanny fit of blocks, as close as 1/500th of an inch, puzzles Egyptologists. Hard metals, such as iron and bronze, were not yet developed to produce good stone-cutting tools. Logistical problems of constructing the Great Pyramid are staggering and have never been reconciled; the scale and perfection is too grand. During the 20-year reign of the pharaoh who built it, about 2½ million blocks were produced and perfectly assembled. As scientific methods of investigation become more sophisticated, the list of enigmas lengthens and more questions are raised than answered. Davidovits and Morris propose that "pyramid blocks" are not natural stone; the blocks are actually exceptionally high quality limestone concrete — synthetic stone — cast directly in place. The book explores the feasibility and presents "proof" for this theory while disarming other theories of pyramid construction.

— from the publisher

Hippocrene Books, 1988, 263 pages, 9¼" x 6", hardcover, \$16.95  
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