

## Books

**Books** is an editorial service for readers' information. To order any book listed or any U.S. book in print, please remit retail price, plus \$2.00 postage and handling charge for each book, to **SCIENCE NEWS BOOKS**, 1719 N Street, NW, Washington, DC 20036. All books sent postpaid. Domestic orders only. Please allow 4-6 weeks for delivery.

**Cyberpunk: Outlaws and Hackers on the Computer Frontier** — Katie Hafner and John Markoff. An astonishing look at computer hackers and at the dark side of our dependence on computer networks. The authors focus on three individuals who engaged in criminal computer activities, exploring their motivations, their methods and the incredible computer underworld that lurks beneath our high-tech culture. Written for general readers. S&S, 1991, 368 p., hardcover, \$22.95.

**Journey Through Genius: The Great Theorems of Mathematics** — William Dunham. Written for readers equipped with high school algebra and geometry, this book explores important proofs and ingenious logical arguments in the history of mathematics. Each chapter emphasizes the historical significance of a theorem and describes the often-colorful mathematicians involved, examining how they resolved the pressing logical issue. Dunham focuses on important theorems solved by great mathematicians — including Archimedes, Euclid and Newton — in varied fields such as plane geometry, algebra, number theory, analysis and set theory. These theorems either resolved long-standing mathematical problems or generated profound questions for future generations to address. Originally published in hardcover in 1990. Penguin, 1991, 300 p., paperback, \$10.95.

**Keeping Watch: A History of American Time** — Michael O'Malley. An engaging history of how the clock came to hold such influence over our lives. O'Malley chronicles the conversion of time from a local measure determined by nature's rhythms to an abstract standard determined by machine. He shows how this change — inevitable as U.S. communities became increasingly linked through trade and travel — revolutionized such pursuits as transportation and labor management, inspiring a whole new dependence on time as a means of social organization. Originally published in hardcover in 1990. Penguin, 1991, 384 p., paperback, \$10.95.

**Memory in Mind and Brain: What Dream Imagery Reveals** — Morton F. Reiser. A psychiatrist provides a scholarly review of how data from neuroscience, psychology, biology, artificial intelligence and psychoanalysis can be integrated to elucidate the role of memory in dreaming. Reiser, whose psychobiological model of the dream process resembles Freud's original theories, examines how Freudian theories fit into modern neuroscientific understanding. Valuable reading for professionals in psychoanalysis and neurophysiology. Basic, 1991, 218 p., hardcover, \$27.95.

**More Mathematical Morsels** — Ross Honsberger. A collection of 57 problems for serious mathematics enthusiasts with a college-level understanding of mathematics. Although the problems are not long or complicated, their solutions (all provided in the book) require a creative approach. Math Assn, 1991, 322 p., illus., paperback, \$16.95.

**The Real World: Understanding the Modern World Through the New Geography** — Bruce Marshall, Ed. An encyclopedic overview of how geography — the mapping of populations, migration patterns and the distribution of languages, religions and customs — can elucidate the world around us. Geography helps explain, for instance, why cities arise where they do, why some population groups are settlers and others are nomadic, and why certain nations war with each other. This volume is divided into sections on the forces of nature, the spread of humans across the planet, how various cultures make a living, where we live and why, the geography of war and peace, and the process of mapping the world. Extensively illustrated with maps, drawings and color photographs. HM, 1991, 264 p., color illus., hardcover, \$35.00.

**Unbounding the Future: The Nanotechnology Revolution** — K. Eric Drexler and Chris Peterson with Gayle Pergamit. Drexler, a leading specialist in nanotechnology, envisions a world teeming with molecule-sized machines that can manipulate matter on an atomic scale, and he argues that such technology is within our reach. Writing for the lay reader, he and his coauthors describe the current state of nanotechnology and explain how future developments could revolutionize medicine, industry and technology. They present several scenarios for future applications, emphasizing that these are possibilities rather than predictions. The authors also stress the importance of responsible and educated forethought in nanotechnology development, noting that the promise of inexpensive control of the structure of matter also carries with it the potential for abuse. HM, 1991, 304 p., illus., hardcover, \$23.00.

"An enticing taste of modern mathematics. . . . remarkable book; it is a trip readers need to take, regardless of their interest in mathematics." — *Choice*

"Vivid, compelling, pleasure filled." — *Mathematical Monthly*

Your copy will be autographed by Ivars Peterson

Science News Books  
1719 N Street, NW  
Washington, DC 20036

IslandsTruth  
MathTour

Please send me the book(s) marked below. I enclose the price of the book(s) plus \$2.00 for postage and handling per book (maximum \$4.00 charge). Domestic orders only.

\_\_\_ *Islands of Truth*, \$11.95

\_\_\_ *The Mathematical Tourist*, \$11.95

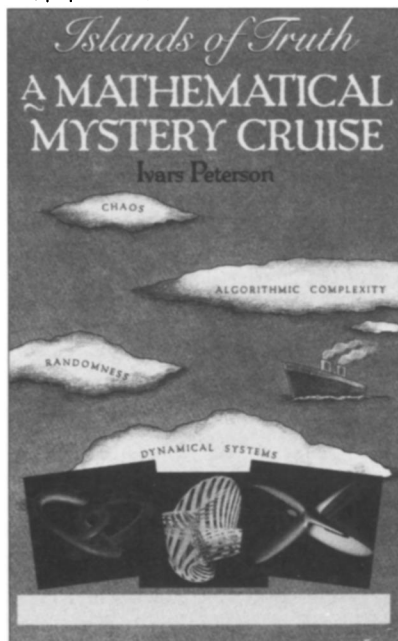
Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

Daytime Phone \_\_\_\_\_  
(used only for problems with order) RB1477



W. H. Freeman, 1990, 325 pages, 5¾" x 8¾", paperback, \$11.95

Order by Phone!  
1-800-544-4565  
(Visa or MasterCard Only)

The author of the bestselling *The Mathematical Tourist* returns for another exciting excursion into the research frontiers of modern mathematics. Without use of difficult concepts or language, *Islands of Truth* explores astonishing applications of number theory, new developments in fractal geometry, recent applications in computer graphics, and a host of other exciting trends at the edge of research. Peterson, Mathematics/Physics Editor for *Science News* for the past eight years, makes the arcane intelligible while he translates mathematics into prose.

— from the publisher

Also Available . . .

***The Mathematical Tourist***

"a top-notch survey of the frontiers of modern mathematics."  
— *The Los Angeles Times*

W. H. Freeman, 1988, 240 pages, 5¾" x 8¾", paperback, \$11.95