

Books

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Alice and the Space Telescope — Malcolm Longair. Introduces black holes, quasars, neutron stars and other phenomena whose mysteries the Hubble Space Telescope will help to explore. The first half of the book is a whimsical illustrated tour of the anatomy and abilities of the telescope (scheduled for launch this month), led by Alice and her friends. In the second half, the illustrations continue as Longair details how the telescope was built, what it will do and what astronomers hope to learn from its observations. This delightful book can be enjoyed on many levels, from general reader to professional astronomer. Johns Hopkins, 1989, 198 p., color/b&w illus., hardcover, \$28.95.

Body Clock: The Effects of Time on Human Health — Martin Hughes, Editor. Examines the cyclic patterns of bodily processes, including heartbeat, sleeping and dreaming, digestion and reproduction. The well-illustrated book is accessible to the general reader and answers such common questions as: When is rapid breathing dangerous? How long does it take to recover from a heart attack? How likely is pregnancy after age 40? Includes a guide to the body's normal patterns of change — at what age the body needs more sleep, less food, certain immunizations, etc. Facts on File, 1989, 191 p., color illus., hardcover, \$24.95.

Journey Through Genius: The Great Theorems of Mathematics — William Dunham. Written for readers equipped with high school algebra and geometry, this book explores the most important proofs and ingenious logical arguments in the history of mathematics. Each chapter emphasizes the historical significance of a theorem and describes the backgrounds of the often-colorful mathematicians involved, taking a step-by-step look at how they resolved the pressing logical issue. Dunham chose 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 problems in mathematics or generated profound questions for the future. Wiley, 1990, 300 p., hardcover, \$19.95.

Mind Children: The Future of Robot and Human Intelligence — Hans Moravec. The director of the Mobile Robot Laboratory at Carnegie Mellon University introduces the general reader to the power of machines in present and future society. The author declares in the preface that "... within the next century [our machines] will mature into entities as complex as ourselves, and eventually into something transcending everything we know — in whom we can take pride when they refer to themselves as our descendants." He maintains that many predictable intermediate steps have already occurred — such as the shift of information storage from our minds to our libraries to our computers — and speculates on how the human mind will participate in future changes. Originally published in hardcover in 1988. Harvard U Pr, 1989, 214 p., illus, paperback, \$9.95.

The Natural History of Seals — W. Nigel Bonner. Written for the general reader, this book looks at the true seals of the order *Pinnipedia*. Discusses their physical adaptations to aquatic life, differences from other mammals, food gathering, mating and social behavior. Looks at humans' relationships with seals throughout history, from early subsistence hunting to the current problems of net entanglement, ocean pollution and conflicts between seals and fisheries. Facts on File, 1990, 196 p., illus., hardcover, \$24.95.

The Pinnipeds: Seals, Sea Lions and Walruses — Marianne Riedman. Reviews scientific knowledge of the 33 species of fin-footed mammals — their biology, behavior, reproduction and ecology. Focusing on general trends and overall patterns, the book serves as an introduction to pinnipeds for the student or interested lay reader. Univ of Calif Pr, 1990, 439 p., illus., hardcover, \$29.95.

Secrets of the Old Growth Forest — David Kelly and Gary Braasch. Breathtaking photographs depict the flora and fauna of the old-growth forest in the Pacific Northwest, where, according to the authors, "redwoods, Douglas firs, spruce, cedars and pines grow to more than 1,000 years of age and collectively create the most massive forest on Earth, exceeding even the tropical forests." The forest is being destroyed by logging, they say, at a time when scientists are just beginning to understand some of the interactions that have allowed it to sustain growth for so long. The authors include an update on legislation enacted since the hardcover version was published in 1988. Gibbs M Smith, 1990, 99 p., color illus., paperback, \$15.95.

The Cornell Book of Cats

A Comprehensive Medical Reference for Every Cat and Kitten

Edited by Mordecai Siegal



Villard Books,
1989, 435 pages,
7½" x 9½",
hardcover, \$24.95

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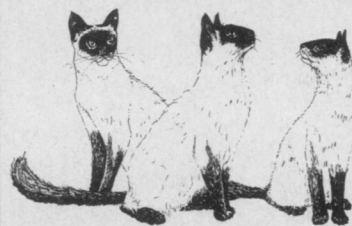
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The Cornell Book of Cats is an inexhaustible book of current medical information that is clear yet does not sacrifice clinical accuracy or detail. It outlines the feline anatomy, discusses behavior and misbehavior — and how to understand, identify and correct a cat's behavior problems. *The Cornell Book of Cats* gives readers guidelines on how to select a cat or kitten, whether it is a typical house cat or a valuable pure breed. It also provides descriptions and photographs of forty-one cat breeds accepted by one or more of the various national cat associations. Further, it explains feline nutrition and how to properly feed a kitten, an adult cat, an obese cat, a sick cat and an older cat. Above all, *The Cornell Book of Cats* serves as an invaluable resource that will support cat owners with a wealth of medical background to which they can refer before and after visits to the veterinarian.



— from the publisher