

NEW YEAR BOOKS

Books that have been recent favorites among the readers of Science News. Resolve to catch up on your reading in the new year!

THE ART OF CREATIVE THINKING — Robert W. Olson. Based on research and experiments in ways to stimulate creativity, this book gives techniques and exercises to develop creative abilities. B&N, 1980, 265 p., paper, \$4.95. [1]

A CENTURY OF DNA: A History of the Discovery of the Structure and Function of the Genetic Substance — Franklin H. Portugal and Jack S. Cohen. Tells one of the most fascinating stories in modern science — that of DNA, from its discovery in 1869 to the solution of the genetic code in the 1960s. For the general reader with high school training in chemistry and biology, as well as for the professional scientist and science historian. MIT Pr, 1977, 384 p., illus., \$25; 1980, paper, \$6.95. [2]

CHILDREN'S FRIENDSHIPS — Zick Rubin. Children learn a great deal, both cognitively and emotionally, from one another. This book, written in nontechnical language, provides insight into this. Illustrated with charming photographs. Harvard U Pr, 1980, 165 p., illus., \$8.95, paper, \$3.95. [3]

COPING WITH CHRONIC PAIN — Nelson H. Hender and Judith Alsofrom Fenton. Introduces for the general reader the recent developments in the diagnostic procedures, psychological testing, counseling, non-narcotic drug treatment and medical facilities for chronic pain sufferers. Discusses the effects of pain on its victims and their families and provides advice to help deal with chronic pain. Potter (Crown), 1979, 166 p., illus., \$10. [4]

DAWN OF MODERN SCIENCE: From the Arabs to Leonardo Da Vinci — Thomas Goldstein. Portrays science as a historical phenomenon, one of many types of specialized activity around which humans built a culture in the course of history. HM, 1980, 297 p., illus., \$12.95. [5]

DINOSAURS AND THEIR LIVING RELATIVES — British Museum (Natural History). Sets out to discover how dinosaurs are related to other animals — both living and extinct. Based on a recently installed exhibit at the British Museum (Natural History). Cambridge U Pr, 1980, 72 p., color and b&w illus., \$17.95, paper, \$6.95. [6]

ENGINES: The Search for Power — John Day. Covers the various types of power units from the earliest use of wind and water through the precursors of the fuel-powered engines of the 17th and 18th centuries and from the types that came into practical use in the 19th and 20th centuries to the space shuttle engine. Beautifully illustrated with color, black and white photographs and diagrams showing how the engines operate. St Martin, 1980, 256 p., color/b&w illus., \$27.50. [7]

EXPERIENCING SCIENCE — Jeremy Bernstein. The theme of this readable collection of pieces written by a theoretical physicist is "the large scientific experience... filtered through the perceptions and developing experience of one individual." Originally published in hardback in 1978 by Basic Books. Dutton, 1980, 275 p., paper, \$5.95. [8]

GALAPAGOS: Islands Lost in Time — Tui De Roy Moore, Introduction by Peter Matthiessen. Exquisite photography makes the world of the Galapagos Islands come alive for the reader. The photographer/author grew up and still lives in this fascinating archipelago, where for more than 10 years she has concentrated on capturing on film the most unusual and revealing aspects of the islands and their wildlife. The text tells of the formation of the Galapagos, the evolution of wildlife, the coming of humans to the islands, growing up there and the author's love for the life she found around her. Viking Pr, 1980, 71 p. plus 299 color photographs, \$25. [9]

GREGORY BATESON: The Legacy of a Scientist — David Lipset. A biography of this distinguished anthropologist and social scientist that traces his intellectual evolution. Portrays both the personal and scientific dimensions of life against the historical and cultural movements of his time. P-H, 1980, 360 p., illus., \$16.95. [10]

HOW TO SOLARIZE YOUR HOUSE: A Practical Guide to Design and Construction for Solar Heating — Thomas Scott Dean with Jay W. Hedden. Written to describe "how" in sufficient detail for the average person to be able to incorporate a solar heating system using liquid-cooled flatplate collectors into a new or existing building. The components for this type of system are, for the most part, readily available and relatively inexpensive. Scribner, 1980, 162 p., illus., \$20. [11]

LIFE AFTER '80: Environmental Choices We Can Live With — Kathleen Courrier, foreword by Richard Munson. Compiled as a celebration of the 10th anniversary of Earth Day. The articles by outstanding environmentalists discuss the critical issues affecting our environment. Brick Hse Pub, 1980, 280 p., paper, \$6.95. [12]

MATH SQUARED: Graph Paper Activities for Fun and Fundamentals — David Stern. With the use of graph paper many mathematical ideas are introduced through games, puzzles and problems. Intended for the advanced junior high school student and the adult nonmathematician interested in mathematical recreations. Tchrs Coll, 1980, 115 p., illus., paper, \$5.50. [13]

MATHEMATICS TODAY: Twelve Informal Essays — Lynn Arthur Steen, Ed. These essays by outstanding mathematicians are intended to convey to the nonmathematician something of the nature, development and use of mathematical concepts, particularly those that have found application in current scientific research. Originally published in hardback in 1979. Vintage (Random), 1980, 367 p., illus., paper, \$4.95. [14]

THE MICRO MILLENNIUM — Christopher Evans. The Computer Revolution will have, the author says, an overwhelming and comprehensive impact, affecting every human being on earth in every aspect of his or her life. This book tells of the evolution of the computer, the present state of computer technology, and the future — short-, medium- and long-term — to the year 2000. Viking Pr, 1980, 255 p., illus., \$10.95. [15]

THE PANDA'S THUMB: More Reflections in Natural History — Stephen Jay Gould. Essays that illustrate why we can be confident that evolution occurred and that discuss the major themes in the evolutionary study of natural history — Darwinian theory and the meaning of adaptation, the tempo and mode of change and the scaling of size and time. Other essays tell of certain organisms and the peculiarities of their history. Much of this material has appeared in the author's monthly column in *Natural History*. Norton, 1980, 343 p., illus., \$12.95. [16]

THE SEARCH FOR SOLUTIONS — Horace Freeland Judson, Introduction by Lewis Thomas. Science is presented to the general reader through some of the processes that scientists use to reach solutions in science, such as discovering patterns, modeling and making predictions. Includes conversations with scientists that point up how these processes are used in their discipline. HR&W, 1980, 211 p., color and b&w illus., \$16.95. [17]

SEEING: Illusion, Brain and Mind — John P. Frisby. A book for the general reader on the fundamental nature of seeing and the workings of the visual system, together with beautiful illustrations and a host of visual illusions, some of which are to be viewed through the 3-D glasses provided with the book. Oxford U Pr, 1979, 160 p., color and b&w illus., \$16.95. [18]

THE VIKING WORLD — James Graham-Campbell, foreword by David M. Wilson. The Viking Age began in the last decades of the eighth century and lasted until 1100. Although the time was short, the influence of the Vikings was far-reaching and their impact on Western culture was tremendous. This magnificently illustrated book tells the story of the Vikings, their way of life, their culture and artifacts and their influence. Ticknor & Field (HM), 1980, 220 p., color and b&w illus., \$25. [19]

THE WASTE WATCHERS: A Citizen's Handbook for Conserving Energy and Resources — Arthur H. Purcell. We have to look upon waste as the serious national problem that it is, says the author — a problem that, if left unsolved, will reduce our standard of living and make our lives less enjoyable. Dr. Purcell goes on to describe practical waste-trimming strategies. Anchor Pr/Doubleday, 1980, 286 p., illus., paper, \$4.50. [20]

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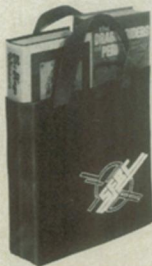


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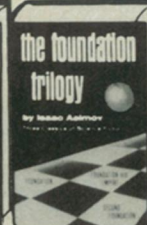
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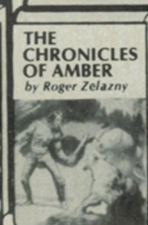
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