

# BOOKS

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**ACROSS THE CHICHIMEC SEA: Papers in Honor of J. Charles Kelley** — Carroll L. Riley and Basil C. Hedrick Eds. — S ILL U Pr, 1978, 318 p., illus., \$15. Deals with the area covering much of northern Mexico and parts of the southwestern United States and examines the interaction among exotically diverse bands of Indians that flourished for at least 1,000 years before Columbus.

**ANNUAL REVIEW OF BIOCHEMISTRY, Vol 47** — Esmond E. Snell et al, Eds. — Annual Reviews, 1978, 1315 p., \$17. Sixty-two authors treat 33 different topics.

**CREATIVE GLASS BLOWING: Scientific and Ornamental** — James E. Hammesfahr and Clair L. Stong — W H Freeman, 1978, 196 p., illus., paper, \$7.95. Introducing a new hobby, ornamental glass blowing. Addressed to the beginner with explanations of operations that require only enthusiasm, patience, glass tubing and a gas fire. Scientific glass-blowing for the chemist and physicist who have frequent occasion to build or repair glass apparatus. Originally published in hardback in 1968.

**DISAPPEARING SPECIES: THE SOCIAL CHALLENGE** — Erik Eckholm — Worldwatch Inst Paper 22, 1978, 39 p., paper, \$2. According to this report, large-scale extinctions are in store in the biologically rich, scientifically uncharted humid tropical zones of Africa, Asia and Latin America. Throughout the world, the destruction of natural habitats is the leading cause of species extinctions.

**ECONOMIC AND FISCAL IMPACTS OF COAL DEVELOPMENT: NORTHERN GREAT PLAINS** — John V. Krutilla and Anthony C. Fisher with Richard E. Rice — Resources for the Future (Johns Hopkins), 1978, 208 p., charts & graphs, \$16. Under plausible conditions, this portion of eastern Montana could provide up to a quarter or more of the total increase in coal production called for in the President's energy message of April 20, 1977.

**ELECTRONIC SYSTEMS AND INSTRUMENTATION** — Richard W. Henry — Wiley, 1978, 381 p., diagrams, \$18.95. A brief introduction to electronics for the user of electronic instrumentation systems, both linear and digital.

**ENERGY RESOURCES** — J. T. McMullan et al — Halsted Pr, 1978, 177 p., illus., paper, \$7.95. A survey of energy resources and the techniques of energy conversion for the students of physical and environmental sciences or the intelligent layman. The use of mathematics has been avoided wherever possible.

**HANDBOOK OF NOISE ASSESSMENT** — Daryl N. May, Ed. — Van Nos Reinhold, 1978, 400 p., illus., \$22.50. Describes the psychological and physical effects of noise and presents the noise levels considered acceptable by various authorities and regulatory agencies, while concentrating primarily on assessment, both indoor and out.

**HOW TO CUT YOUR ENERGY COSTS: A Guide to Major Savings at Home and on the Road** — G. Kimball Hart — US News & World (S&S), 1978, 272 p., illus., \$7.95. A do-it-yourself analysis that will reveal the projects most worthwhile to undertake for your home. Points up those projects that will result in the greatest savings in gas, electric, and fuel oil bills for each dollar invested in conserving energy.

**THE INVENTIONS OF LEONARDO DA VINCI** — Charles Gibbs-Smith and Gareth Rees — Scribner, 1978, 110 p., illus., \$12.95; paper, \$7.95. Drawings of this astonishing 15th century genius are reproduced with commentaries by the authors to guide the reader to a fuller understanding of the design ideas behind the inventions.

**THE LAPPS** — Arthur Spencer — Crane-Russak Co, 1978, 160 p., drawings & photographs, \$10.50. The Lapps today live in the far north of Europe, mainly above the Arctic Circle in a crescent of wild country stretching from Norway to as far east as Kola Peninsula in the USSR. This is a broad survey of all the Lapps, their history, their culture and their life today.

**MEDICAL PHYSICS** — John R. Cameron and James G. Skofronick — Wiley, 1978, 615 p., illus., \$21.95. Written primarily as a text for students in medical fields who also have some understanding of elementary physics, this book would be of interest to those who are curious about the applications of physics to the function of the human body and the physical principles of the instruments used in medical diagnosis and therapy.

**MOOD CONTROL** — Gene Bylinsky — Scribner, 1978, 169 p., \$8.95. Surveys recent research in the biochemistry of the brain and psychopharmacology and demonstrates that our expanding drug technology could give rise to mood control, behavior modification and even intellectual programming on a large scale.

**MY WILDERNESS WILDCATS** — Mike Tomkies — Doubleday, 1978, 227 p., illus., \$7.95. A naturalist living in the Highlands adopts two Scottish wildcat kittens in order to observe at close range the behavior of these unusual wild creatures, then goes on to take on an aging male wildcat from the London Zoo and becomes the first person ever to breed these beautiful animals in captivity.

**THE NATURAL HISTORY OF THE LAND OF THE BIBLE** — Azaria Alon — Doubleday, 1978, 276 p., illus., \$12.95. Describes the land, the flora and the fauna of Israel as it is today and looks at the countryside through the eyes of the Bible. Beautifully illustrated with black and white and color photographs.

**PAPER BASICS: Forestry, Manufacture, Selection, Purchasing, Mathematics and Metrics, Recycling** — David Saltman — Van Nos Reinhold, 1978, 223 p., illus., \$10.95. A readable, practical approach to understanding paper — where it comes from, how it is made and how best to use it for maximum efficiency. Covers the newest technological advances and explores the urgent challenges of environmental and energy conservation in paper production.

**PERSONALITY, MOTIVATION, AND ACHIEVEMENT** — John W. Atkinson and Joel O. Raynor — Halsted Pr, 1978, 272 p., charts & graphs, paper, \$10.95. An account of how individual differences in personality affect motivation and how motivation influences behavior. An abridgement of *Motivation and Achievement* (1974).

**THE PSYCHOBIOLOGY OF MIND** — William R. Uttal — LEA (Halsted Pr), 1978, 785 p., illus., \$29.95. This book reviews the history, restates the issues, acknowledges the difficulties and surveys the present empirical knowledge in its attempts to elucidate conceptual foundations for the science concerned with the relation of the mind and the body.

**PURPOSE IN A WORLD OF CHANCE: A Biologist's View** — W. H. Thorpe — Oxford U Pr, 1978, 124 p., illus., \$9.95. Arguing for the importance of purpose as well as chance in nature, this book is intended as an answer to Jacques Monod's *Chance and Necessity*.

**RECOMBINANT DNA: Readings from SCIENTIFIC AMERICAN** — Introduction by David Freifelder — W H Freeman, 1978, 142 p., illus., \$12; paper, \$6.50. With recombinant DNA research now the subject of controversy, it is, according to the introduction, essential that both the scientific com-

munity and the lay public understand DNA. This book explains what DNA is, how this technique of manipulating genetic material developed, the values and hazards of genetic engineering and analyzes the controversy.

**RECONCILING MAN WITH THE ENVIRONMENT** — Eric Ashby — Stanford U Pr, 1978, 104 p., \$7.95. Traces the political process between the disclosure of a hazard to the environment and the action to remedy that hazard and outlines the slow evolution of the public conscience over the last hundred years from indifference to concern for the environment. Based on invited lectures given at Stanford University in October 1977.

**SCIENCE AND PATTERNS OF CHILD CARE** — Elizabeth M. R. Lomax et al — W H Freeman, 1978, 247 p., \$12; paper, \$6. Concentrates on one major aspect of developmental psychological research — the importance of variation in early experience on the profile of intellect and motivation seen in adolescence and adulthood. This provides one of the most obvious examples of the essential role that empirical research plays with respect to the beliefs and practices of the larger society.

**SCIENCE AS A HUMAN ENDEAVOR** — George F. Kneller — Columbia U Pr, 1978, 333 p., \$13.95. Portrays science in its entirety, inquires into its powers and limitations, into the threats it poses and the promises it holds. Seeks throughout to show that science is a human endeavor and not an "impersonal juggernaut."

**THE SCIENTIST: A Novel Autobiography** — John C. Lilly — Lippincott, 1978, 210 p., \$10. Chronicles the inner and outer experiences of this controversial scientist. The style of this work was chosen to free him for maximum clarity of expression of deeply felt, deeply experienced events.

**THE STAR THROWER** — Loren Eiseley, introduction by W. H. Auden — Times Books, 1978, 319 p., \$12.50. An anthology of essays and poems selected and arranged by Eiseley in the year before his death. Many of the pieces have never appeared in a book before and are from his early writings.

**SOURCEBOOK ON THE ENVIRONMENT: A Guide to the Literature** — Kenneth A. Hammond et al, Eds. — U of Chicago Pr, 1978, 613 p., \$20. To provide a broad guide to selected aspects of the environmental literature. Annotated commentaries introduce the reader to the basic literature in the field and give references to more advanced and more specialized works.

**STARS: Their Birth, Life, and Death** — Iosif S. Shklovskii, translated from Russian by Richard B. Rodman, foreword by Carl Sagan, prologue by J. P. Ostriker — W H Freeman, 1978, 442 p., illus., \$17.50. In this book for the general reader, stellar evolution is presented in the broadest possible perspective by one of the world's leading astrophysicists. Much of the excitement and enthusiasm of the book derive from the fact that the author has played a major role in many of the discoveries described.

**SUN, MOON AND STANDING STONES** — John Edwin Wood — Oxford U Pr, 1978, 217 p., illus., \$14.95. Presents the evidence for and against the theory that prehistoric communities such as those who erected Stonehenge and Carnac devised their own geometry, units of length, made astronomical observations, predicted eclipses and produced a calendar.

**VALUES AND CHOICES IN THE DEVELOPMENT OF THE COLORADO RIVER BASIN** — Dean F. Peterson and A. Berry Crawford, Eds. — U of Ariz Pr, 1978, 337 p., illus., \$14.50; paper, \$7.50. Utilizes this arid lands river basin to examine the forces and considerations that have led to present conditions and to discuss the consequences of alternatives development in the light of societal needs and values. Papers selected from the AAAS Committee on Arid Lands symposium, February 28 to March 1, 1974.