

# New Books

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**THE AMATEUR ASTRONOMER'S HANDBOOK**—James Muir—T. Y. Crowell, 1974, rev. expanded ed., 404 p., photographs, diagrams, tables, \$8.95. Up-to-date survey of the techniques of amateur astronomy, from selection of equipment to conduct of actual optical work, with major section discussing the solar system, stars and nebulae.

**THE ARCHAEOLOGY OF SHIPS**—Paul Johnstone—Walck, 1974, 135 p., color plates, photographs, drawings, maps, \$8.95. Tells about the discovery, lifting and restoration of such finds as the nearly 5,000 year-old Cheops ship, the Byzantine Yassi Ada, the Viking ships, and the Anglo-Saxon Sutton Hoo.

**ASTROLOGY: Sense or Nonsense**—Roy A. Gallant—Doubleday, 1974, 218 p., photographs, drawings, \$5.95. Popularly written, generously illustrated, sober examination of the methods and claims of astrology.

**THE COLLECTOR'S ENCYCLOPEDIA OF SHELLS**—S. Peter Dance, Ed.—McGraw, 1974, 288 p., 1,500 color photographs by Ian Cameron, drawings, \$19.95. Reference work to 2,000 species arranged in systematic order following up-to-date classification of mollusks. Photographs especially taken for this book are closely integrated with text.

**THE COMPLETE ILLUSTRATED BOOK OF DYES FROM NATURAL SOURCES**—Arnold and Connie Krochmal—Doubleday, 1974, 282 p., color plates, photographs, drawings, \$9.95. After short historical introduction, discusses dye plants, methods and supplies, and describes materials and methods for 220 dye recipes.

**CONCEPTS IN ETHOLOGY: Animal and Human Behavior**—M. W. Fox; foreword by René Dubos—U of Minn Pr, 1974, 156 p., photographs, drawings, \$8.50. Monograph presents studies of animal behavior, draws certain inferences to human behavior, points out the limits of analogy, and discusses application of ethology in animal husbandry.

**CONTINENTS IN MOTION: The New Earth Debate**—Walter Sullivan—McGraw, 1974, 413 p., color plates, photographs, diagrams, maps, \$17.95. Thoroughly documented, tells in layman's language of ocean bottom rifts and trenches, magnetic reversals, deep-sea drillings, plumes and eruptions, piecing together the great epic of continental plate tectonics.

**CYCLES OF ESSENTIAL ELEMENTS: Benchmark Papers in Ecology**—Lawrence R. Pomeroy, Ed.—DH & R, 1974, 388 p., diagrams, tables, \$22. These classic studies on the cycling of mineral nutrients focus on the foundations of modern ecology, control mechanisms, compartmental analysis, and mathematical models.

**DOCTOR IN THE ZOO**—Bruce Buchenholz; introd. by Cleveland Amory—Viking Pr, 1974, 192 p., photographs by author, \$19.95. Collection of appealing photographs brings the reader into intimate contact with assorted zoo animals receiving expert veterinarian care.

**EARLY DETECTION: Breast Cancer is Curable**—Philip Strax, M.D.—Har-Row, 1974, 105 p., photographs, \$5.95. Informative and persuasive professional advice to women. Proceeds from book go to American Cancer Society.

**THE ENVIRONMENT: Costs, Conflicts, Action**—John Cairns, Jr. and Kenneth L. Dickson, Eds.—Dekker, 1974, 162 p., diagrams, tables, \$12.75. Conference papers explore the reasons for the complexity of viewpoints about environmental issues, from resource demands and predictions to environmental action by government and industry.

**EUREKA: An Illustrated History of Inventions from the Wheel to the Computer**—Edward de Bono, Ed.—HR & W, 1974, 10 x 12, 248 p., photographs, many in color, drawings, tables, \$25. Explains hundreds of key inventions, while summary articles introduce each field of human endeavor, from means of transportation to mental aids. Includes chronological tables of contemporary events.

**HEREDITY AND YOU: How You Can Protect Your Family's Future**—Augusta Greenblatt, foreword by Leon E. Rosenberg, M.D.—Coward, 1974, 256 p., \$7.95. Exceptionally lucid and readable, describes the biological basis of selected genetic disorders, focusing in particular on those for which concrete help is available now.

**HOW MUSICAL IS MAN?**—John Blacking—U of Wash Pr, 1974, 130 p., photographs by author, musical examples, \$6.95; paper, \$2.95. Ethnomusicologist-anthropologist explores the role of music in society and culture, drawing examples from Western music and from the music of the Transvaal Venda people.

**THE HUMAN MIRROR: Material and Spatial Images of Man**—Miles Richardson, Ed.—La State U Pr, 1974, 390 p., photographs, diagrams, maps, \$15. Essays cover a broad range of inferential studies that focus on such material objects and images as Neanderthal graves, Teotihuacan murals, beam presses on Korfu, and adaptations to spatial crowding in Taos Pueblo.

**THE INVISIBLE UNIVERSE: The Story of Radio Astronomy**—Gerrit L. Verschuur—Springer Verlag, 1974, 188 p., photographs, diagrams, paper, \$5.90. Describes for the layman the world of the radio astronomer, the discoveries made during the last decade, and how they have expanded our knowledge of the universe.

**LAUE ATLAS: Plotted Laue Back-Reflection Patterns of the Elements, the Compounds RX and RX<sub>2</sub>**—Edward Preuss, Bernard Krahl-Urban and Rainer Butz—Halsted Pr, 1974, 432 p., illus., \$49.50. Presents a simplified method for the orientation of single crystals based on direct comparison of Laue patterns with Laue diagrams plotted by computer.

**THE LIFE OF BIRDS, Vols. I and II**—Jean Dorst, transl. from French by I. C. J. Galbraith—Columbia U Pr, 718 p., 32 plates, drawings, \$35. A major study of the biology of birds giving special attention to the adaptation of birds to the requirements of flight, and adjustment to different environments.

**MANIPULATION: Dangers and Benefits of Brain Research**—Erwin Lausch, transl. from German by Oliver Coburn—Viking Pr, 1974, 283 p., illus., \$8.95. Gives an overview and summarizes experimental findings in a wide variety of areas investigated.

**THE MEDICINE SHOW**—The Editors of Consumer Reports—Pantheon, 1974, rev. ed., 384 p., \$8.50; paper, \$3.50. Updated advice to help the consumer make better choices among brand-name recommendations, advertised cold remedies, pain-killers, antacids, deodorants, and other drugs and cosmetics.

**MIND IN THE WATERS: A Book to Celebrate the Consciousness of Whales and Dolphins**—Joan McIntyre, Ed.—Scribner/Sierra Club, 1974, 9 x 11, 240 p., color plates, photographs, drawings, \$14.95. A tribute to cetacean intelligence,

brings together myths, brain research, observations, and experiments in communication with individuals and groups of whales and dolphins.

**THE NORTHMEN**—Thomas Froncek and Editors of Time-Life Books—Time-Life Bks, 1974, 160 p., color plates, photographs, map, \$7.95. Presents in pictures and readable text the extraordinary record of Scandinavian prehistory preserved in bogs, from Stone, Bronze and Iron Ages, in amber, gold and silver.

**THE PASSAIC RIVER: Past, Present, Future**—Norman F. Brydon—Rutgers U Pr, 1974, 395 p., photographs, maps, \$15. New Jersey river in historical perspective, from dinosaur fossil finds, and early settlement, to impact of industrialization, pollution and wildlife preserves.

**PRACTICAL CIRCUIT DESIGN** for the Experimenter—Don Tuite—TAB Bks, 1974, 191 p., diagrams, \$8.95; paper, \$4.95. Written for the electronics hobbyist interested in a more analytical explanation of electrical devices.

**THE PRIVATE LIFE OF THE RABBIT: An Account of the Life History and Social Behavior of the Wild Rabbit**—R. M. Lockley, introd. by Richard Adams—Macmillan, 1974 (1964), 152 p., plates, drawings, \$6.95. Biologist's account of his study of a controlled rabbit colony observed in Wales, the scientific basis for the events in Adams' *WATERSHIP DOWN*.

**SCIENCE AND CIVILIZATION IN CHINA, Vol. 5: Chemistry and Chemical Technology, Part II: Spagyric Discovery and Invention: Magisteries of Gold and Immortality**—Joseph Needham with Lu Gwei-Djen—Cambridge U Pr, 1974, 542 p., plates, illus., \$35. Covers the subject of alchemy and early chemistry and metallurgy, and the physiological verifications of the efficacy of elixirs and perpetual conservation of bodies.

**SWANS OF THE WORLD**—Sylvia Bruce Wilmore—Taplinger, 1974, 230 p., 8 plates, drawings by author, \$9.95. Well-illustrated account of swans' habits, movements and behavior, Mute, Trumpeter, Whooper, Whistling Swan and Bewick's, as well as the southern Black, Black-necked, and Cororoba Swan.

**SYNTHETIC PRODUCTION AND UTILIZATION OF AMINO ACIDS**—Takeo Kaneko et al, Eds.—Halsted Pr, 1974, 312 p., \$22.50. Outlines the known procedures for chemical synthesis, covers synthetic methods for individual amino acids, and deals with their utilization in food, animal feeds, medicines and cosmetics.

**THE TREATMENT OF BREAST CANCER**—Sir Hedley Atkins, Ed.—Univ. Park, 1974, 222 p., \$19.50. Critical and up-to-date review of the main techniques of treatment, surgery, radiotherapy, endocrine therapy, hormonal therapy, and chemotherapy.

**UFO's: A Scientific Debate**—Carl Sagan and Thornton Page, Eds.—Norton, 1974, 310 p., illus., paper, \$3.95. Reprint (1972) of papers presented at AAAS Symposium.

**WHITNEY'S STAR FINDER: A Field Guide to the Heavens**—Charles A. Whitney—Knopf, 1974, 122 p., diagrams, tables, locator wheel, paper, \$4.95. Observer's concise, informative manual, explains clearly and helps identify what can be seen and when over North America, with naked eye and binoculars.

**WILDERNESS AREAS OF NORTH AMERICA**—Ann and Myron Sutton—Funk & W, 1974, 406 p., photographs by authors, maps by Don Pitcher, \$10. Authoritative, brief descriptions of more than 500 wild places, from Panama to the Arctic. Tells where they are, how to reach them, and what remaining original land features to explore.