

New Books

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THE ARRL ANTENNA BOOK—Am Radio Relay League, 1974, 13th ed., 336 p., illus., paper, \$3. Extensively revised, brought up to date throughout, new chapters added.

ALL CREATURES GREAT AND SMALL—James Herriot—St. Martin, 1974, 442 p., \$7.95. A rural veterinarian's memoirs, a warm-hearted, well-told tale.

ANIMAL REPRODUCTION—Philip Street—Taplinger, 1974, 263 p., illus. by Nancy Lou Gahan, \$8.95. Study ranges in scope from an analysis of the reproductive techniques of fishes to those of mammals, birds and amphibians. Stressing special adaptations to the environment, the author describes the problems of marine turtles, penguins and shore fishes.

COLLECTING WORLD SEA SHELLS—Alan Major—Arco, 1974, 187 p., color plates, drawings by Barbara Prescott, \$10. Intended as a reference for serious collectors, describes the various species of shells, the shore zones to visit, type of habitat to search; also tells the beginner how to collect and store the gathered shells.

COMETS, METEORITES AND MEN—Peter Lancaster Brown—Taplinger, 1974, 255 p., plates, diagrams, tables, \$12.50. Absorbing, lucid and thorough introduction to the physical nature of comets and meteorites, famous and unusual comets, meteorites in history, meteorite recognition, classification and dating, and the origin of meteoroids and meteorites.

COMPETITION AND THE STRUCTURE OF BIRD COMMUNITIES—Martin L. Cody—Princeton U Pr, 1974, 328 p., diagrams, maps, tables, \$12.50; paper, \$6.95. Monograph emphasizes the role of competition at levels above single species populations, and describes how competition, by way of the niche concept, determines the structure of communities.

COMPUTERIZING A CLINICAL LABORATORY—Jerry K. Aikawa, M.D., and Edward R. Pinfield—C C Thomas, 108 p., illus., \$8.75. Monograph chronologically traces the problems and steps of changing a traditional hospital laboratory into an automated, computerized, process-controlled system.

THE CONTROL OF GENE EXPRESSION IN ANIMAL DEVELOPMENT—J. B. Gurdon—Harvard U Pr, 1974, 160 p., illus., \$6.50. Offers a broad review and the author's pioneering work on an experimental system which, by permitting genetic information to be transferred from one animal cell to another, has yielded important data on the initiation of cell differentiation.

CURIOUS BOATING INVENTIONS. CURIOUS YACHTING INVENTIONS—Joachim Schult, transl. from German by Inge Moore—Taplinger, 1974, 150 p., 139 p., illus., \$14.95 each. Copiously illustrated descriptions of sometimes successful, more often unsuccessful, patented ideas.

DEVELOPMENT OF BIOCHEMICAL CONCEPTS FROM ANCIENT TO MODERN TIMES—Henry M. Leicester—Harvard U Pr, 1974, 286 p., \$15.

Spanning 20 centuries of scientific thought, the book traces man's endeavor to identify and characterize the physical components of living matter.

DICTIONARY OF SCIENTIFIC BIOGRAPHY, Vol. IX: A. T. Macrobios to K. F. Naumann—Charles Coulston Gillispie, Ed.-in-Chief—Scribner, 620 p., \$35. Biographical articles deal with the contributions of the principal mathematicians and natural scientists of all regions and all historical periods.

EGO PSYCHOLOGY: Theory and Practice—Gertrude and Rubin Blanck—Columbia U Pr, 1974, 395 p., \$17.50. Summarizes the discoveries of contemporary ego psychology, and reports in detail clinical applications of the theory based on the authors' own therapeutic endeavors.

ELECTRON MICROSCOPY OF ENZYMES: Principles and Methods, Vol. 2—M. A. Hayat, Ed.—Van Nos Reinhold, 174 p., 59 illus., \$16.50. Presents major procedures of electron cytochemical methods evolved for the localization of seven major groups of enzymes, hemoproteins to lipase.

ENCYCLOPEDIA OF THE UNEXPLAINED: Magic, Occultism and Parapsychology—Richard Cavendish, Ed., introd. by J. B. Rhine—McGraw, 1974, 304 p. color plates, photographs, drawings, \$17.95. Acquaints the reader with what is purportedly known on subjects ranging from psychical research to systems of divination.

FROM CIRCUITS TO COMPUTERS: A Review of the Principles of Electrical & Electronic Engineering, Vol. 2—L. Solymar, Ed.—Chapman & Hall (Halsted Pr), 1974, 190 p., illus., paper, \$7.50. Nonmathematical, readable account of passive circuits, low frequency amplifiers and oscillators, radio, television, digital and analogue computers.

GETTING A JOB: A Study of Contacts and Careers—Mark S. Granovetter—Harvard U Pr, 1974, 190 p., \$7.95. Sociological study, explores what networks professional, technical and management personnel use to get where they are or where they want to be. Concentrates on the issue of how the information that facilitates mobility is secured and disseminated.

GRZIMEK'S ANIMAL ENCYCLOPEDIA, Vol. 5: Fishes 2/Amphibians—Bernhard Grzimek and Werner Ladiges, Eds.—Van Nos Reinhold, 1974, 555 p., color plates, drawings, \$29.95. Up-to-date encyclopedic knowledge on true fishes, crossopterygians, lungfishes, original four-legged animals, salamanders, limbless amphibians, frogs and toads.

HUMAN MEMORY: Theory and Data—Bennet B. Murdock, Jr.—Lawrence Erlbaum Associates (Halsted Pr), 1974, 370 p., diagrams, \$12.95. Up-to-date review of the field, stresses the encoding, storage, and retrieval of item, associative and serial-order information, with additional material on free recall.

ILLUSTRATED KEYS TO THE FRESH-WATER FISHES OF ALASKA—James E. Morrow—Alaska Northwest, 1974, 78 p., drawings, paper, \$2.95. Tested keys designed to provide as simple a means of identification as possible.

IN SEARCH OF LAKE MONSTERS—Peter Costello—Coward, 1974, 354 p., 30 photographs, drawings, \$8.95. Investigates and compares the various sightings of "monsters" in the freshwater lakes of five continents.

INSECTS IN FLIGHT: A Glimpse Behind the Scenes in Biophysical Research—Werner Nachtigall, transl. from German by Harold Oldroyd and others—McGraw, 1974, 9x11, 153 p., plates, drawings, \$12.95. Shows original re-

sults of experimental research using advanced equipment investigating modes of insect flight. Reveals nature's inventiveness and intricacy of aerodynamic engineering.

INSTRUMENTS OF FLIGHT: A Guide to the Pilot's Flight Panel of a Modern Airliner—Mervyn Siberry—Crane-Russak, 1974, 124 p., photographs, diagrams, \$7.50. Gives the reader a close-up look and better understanding of the instruments and systems the modern airline pilot is watching during the various phases of a typical flight.

AN INTRODUCTION TO CHEMICAL NOMENCLATURE—R. S. Cahn—Halsted Pr, 1974, 4th ed., 128 p., paper, \$6.95. Enlarged and updated introduction to inorganic and organic chemical nomenclature, explains principles rather than merely reproducing formal rules.

THE LIFE GAME: Evolution and the New Biology—Nigel Calder—Viking Pr, 1974, 141 p., color plates, photographs, drawings, \$12.50. From current research in diverse fields the author tells of discoveries affecting the rules of the new life game that may permit man, like a chess player, to influence the genetic odds of chance and the processes of natural selection.

MAGIC SQUARES—John Lee Fults—Open Court, 1974, 113 p., illus., paper, \$1.95. Simply written introduction to recreational combinatorial number theory.

MINERALS YEARBOOK 1972, Vol. 1: Metals, Minerals and Fuels—Staff of the Bureau of Mines—GPO, 1974, 1,370 p., tables, \$12.15. Treats all metallic, nonmetallic and mineral fuel commodities important to the domestic economy. Includes review of the mineral industries, statistical summary, and chapter on technological trends.

THE OZARKS—Richard Rhodes and the Editors of Time-Life Books—Time-Life Bks (Little), 1974, 184 p., 100 color photographs, \$7.95. Explores the hills, rivers, caves, springs, trees and other vegetation of the region.

PONDS AND LAKES—T. T. Macan—Crane-Russak, 1974, 148 p., illus., \$10.50. Discusses the cycle of materials in ponds, and outlines field projects for students, such as physiological surveys, analysis of habitats, species control, territories and control of numbers.

SNORING: New Answers to an Old Problem—Marcus H. Boulware—Am Faculty Pr, 1974, 208 p., illus., \$6.95. Speech pathologist and therapist discusses the multiple causes and types of snoring, medical and psychological treatment, antisnoring devices, and therapy for the listener.

STRUCTURE OF THE HUMAN BRAIN: A Photographic Atlas—Stephen J. DeArmond, Madeline M. Fusco and Maynard M. Dewey—Oxford U Pr, 1974, 9x12, 166 p., photographs, drawings, paper, \$9.95. Detailed reproductions of histological sections of spinal cord and brain stem, transverse, coronal and sagittal sections, of blood supply, and arteriograms.

THINK METRIC NOW! A Step-by-Step Guide to Understanding and Applying the Metric System—Paul J. Hartsuch—Follet, 1974, 120 p., diagrams, \$3.95. Pocket-size, self-teaching aid to make quick approximate conversions from the English system.

WORLD GUIDE TO SCIENTIFIC ASSOCIATIONS (Verbände und Gesellschaften der Wissenschaft. Ein internationales Verzeichnis)—Bowker, 1974, 493 p., \$39. New sourcebook, contains more than 10,000 associations and groups from all fields of science and research in 134 states on five continents. Organized by continents, countries and alphabetically. Includes subject list.