

New Books

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ADVOCACY FOR CHILD MENTAL HEALTH—Irving N. Berlin, M.D., Ed.—Brunner/Mazel, 1975, 348 p., \$13.50. Concerned with child-rearing and child service systems during the critical periods of early development. Seeks to outline programs that will reduce the number of children now hampered by physical, emotional and educational handicaps.

BASIC DIGITAL ELECTRONICS: Understanding Number Systems, Boolean Algebra and Logic Circuits—Ray Ryan—TAB Bks, 1975, 210 p., diagrams, tables, \$7.95; paper, \$4.95. Easily understood explanations, main emphasis is on presenting the various types of digital circuits and describing features pertinent to these circuits.

BLACK NEIGHBORHOODS: An Assessment of Community Power—Donald I. Warren—U of Mich. Pr, 1975, 206 p., tables, \$9. Analyzes the comparative structure of black and white urban communities, based on Detroit study. Shows how and why the black ghetto is unique in terms of the functioning of local neighborhoods, community groups, and status processes.

THE CASCADES—Richard L. Williams and the Editors of Time-Life Books—Time-Life Bks (Little), 1975, 184 p., color and B&W photographs, \$7.95. Extending from Canada into northern California, the range covers a wilderness with 900 glaciers, thousands of lakes, towering peaks and a string of 16 national forests.

A CHOICE OF SUNDIALS—Winthrop W. Dolan—Greene, 1975, 160 p., photographs, diagrams, \$10. Mathematics teacher explains the art and science of timekeeping by sunlight and shadow since earliest times, discusses the various types illustrated, and tells how to construct your own.

ELECTRON MICROSCOPY OF ENZYMES: Principles and Methods, Vol. 3—M. A. Hayat, Ed.—Van Nos Reinhold, 1974, 190 p., photographs, tables, \$17.50. Presents procedures for localizing esterases, purine nucleoside phosphorylase, cellulase, carbonic anhydrase, and acetyl CoA carboxylase.

ENERGY, Vol. 1: Demands, Resources, Impact, Technology and Policy—S. S. Penner and L. Icerman—A.W. 1974, 393 p., diagrams, tables, \$14.50; paper, \$8.50. Set of lecture notes with quantitative data, provides authoritative insight and appreciation of the difficulties involved in energy-demand projections and resource evaluations.

ENERGY AND THE FUTURE—Milton A. Rothman—Watts, 1975, 128 p., photographs, drawings, \$5.90. Short introduction to the crucial issues in simple, nontechnical language.

EVERYMAN'S ASTRONOMY—R. H. Stoy, Ed.—St. Martin, 1975, 293 p., 68 plates, drawings, tables, glossary, \$10. Pocket guide for the intelligent layman, covers the broad field of modern astronomy, from naked eye observations to extragalactic radio sources, and the search for gravitational waves.

A FIELD GUIDE TO WESTERN REPTILES AND AMPHIBIANS—Robert C. Stebbins—HM, 1975, 300 p., 39 color plates and 290 drawings by author, 190 range maps, \$4.95. Compact guide shows field marks on all species found in western North America.

INDUSTRIAL POLLUTION—N. Irving Sax, Ed.—Van Nos Reinhold, 1975, 702 p., photographs, diagrams, tables, \$35. Prescribes toxicology of environmental pollutants, particularly pesticides, thermal pollution, waste treatment, solid wastes, technological sources of air pollution, meteorological aspects and atmospheric chemistry. Features encyclopedic index.

THE INTENSITY INTERFEROMETER: Its Application to Astronomy—R. Hanbury Brown—Halsted Pr, 1974, 200 p., photographs, diagrams, tables, \$18.75. Addressed to physicists and astronomers, outlines the whole story of the discovery, theory, experimental confirmation and successful application, as in the stellar interferometer at Narrabri Observatory, Australia.

NOT FOREVER ON EARTH: Prehistory of Mexico—Shirley Gorenstein—Scribner, 1975, 170 p., photographs by Lee Boltin, maps, \$7.95. Profusely illustrated, book shows what archeologists have learned about transformation and societal change in the cultural history of pre-Hispanic Mexico.

THE PRIVATE LIVES OF ORCHIDS—Hilda Simon—Lippincott, 1975, 160 p., illus. in color by author, maps, \$15. Focuses on the highly individualistic physical characteristics and behavior patterns of 90 out of the 25,000 species that make up the orchid family, illustrated in exquisite detail.

PSYCHOTHERAPY AND MULTIPLE PERSONALITY: Selected Essays—Morton Prince, introd. by Nathan G. Hale, Jr., Ed.—Harvard U Pr., 1975, 328 p., \$12.50. Freud's American contemporary neurologist-psychopathologist, in these essays explores hypnosis, multiple personality, and the existence of unconscious mental processes.

QUATERNARY PLANT ECOLOGY—H. J. B. Birks and R. G. West, Eds.—Blackwell Sci Pubns (Halsted), 1974, 9 x 13, 335 p., photographs, diagrams, tables, \$44.50. Symposium papers discuss methodological problems, pollen representation, plant macrofossils and reconstruction of plant communities, and recent ecological and limnological history.

RECENT ANALYTICAL DEVELOPMENTS IN THE PETROLEUM INDUSTRY—D. R. Hodges, Ed.—Halsted Pr., 1975, 337 p., diagrams, tables, \$32.50. Papers reflect the pace and direction of changing analytical requirements, from discussion of laser Raman spectroscopy, applications of macroreticular ion-exchange resins, to microwave plasma detector system.

SCHOOLS ABROAD OF INTEREST TO AMERICANS, 1975—Ann Maher, Ed.—Sargent, 1975, 3rd ed., 447 p., photographs, \$10. Cross-referenced information about some 800 elementary and secondary schools in 125 countries, from Abbey School in Trinidad-Tobago to Zug American School in Switzerland.

SPECIALIZED COMMUNICATIONS TECHNIQUES for the Radio Amateur—American Radio Relay League—ARRL, 1975, 208 p., paper, \$3. Practical manual deals with amateur television, slow-scan TV systems, facsimile, radioteletype, space communication, and laser and digital communication.

STRANGE BREEDING HABITS OF AQUARIUM FISH—Hilda Simon—Dodd, 1975, 160 p., illus. in color by author, \$5.95. Delightful book for young and old about the intriguing habit of jewel fish, mouthbrooders, sticklebacks, river bullheads, sea horses and others, with guide to their care.

TAPE RECORDING FROM A TO Z—Doug Crawford—A. S. Barnes, 1975, 112 p., illus., \$7.95. Tells how tape recording works, how to choose recorder, operate cassette recorder, and includes alphabetical list explaining terms, techniques, equipment and operation.

TRANSPORT PHENOMENA IN AQUEOUS SOLUTIONS—Tibor Erdelyi Gruz—Halsted Pr, 1974, 512 p., illus., \$37.50. An appraisal and summarization of research dealing with the phenomena of viscous flow, diffusion, and electric conduction in water and aqueous solutions, together with the author's own investigations in this field.

TREASURE BENEATH THE SEA—Kendall McDonald—A. S. Barnes, 1975, 9 x 12, 192 p., photographs, drawings, \$12. Adventures of wreck detectives in search for sunken ships.

UNTAMED AUSTRALIA—Michael Morcombe—Scribner, 1975, 10 x 12, 128 p., 150 color photographs by author, drawings, maps, \$15. Beautiful record of the 15 major Australian wilderness regions by naturalist/photographer, explains the forces which shaped and sustain the ecosystems.

TEXTBOOKS

ANALYTICAL METHODS IN PLANETARY BOUNDARY-LAYER MODELLING—R. A. Brown—Halsted Pr., 1974, 160 p., plates, diagrams, \$24. Text written from the geophysical—primarily meteorological—point of view, emphasizes the available fluid dynamic methods of planetary boundary layer analysis.

BIOLOGY AND MAN—William D. McElroy, Carl P. Swanson and Robert I. Macey—P-H, 1975, 656 p., photographs, diagrams, \$12.95. Text covers modern cell biology and human physiology. Ecological epilogue provides overview of present and future environmental problems confronting mankind.

CHROMATOGRAPHIC METHODS—R. Stock and C. B. F. Rice—Chapman (Halsted), 1975, 3rd ed., 383 p., diagrams, \$15.75; paper, \$8.95. General introduction to the whole field, with chapters on liquid-phase chromatography, paper, gas, and thin-layer chromatography, including model experiments in chromatographic techniques.

DIFFERENTIATION AND GROWTH OF CELLS IN VERTEBRATE TISSUES—G. Goldspink, Ed.—Chapman (Halsted Pr), 343 p., plates, diagrams, \$32.50. Addressed to postgraduates and advanced undergraduates, text blends information of classical embryology, in particular organogeny, with the newer concepts of developmental biology.

INSECT PHYSIOLOGY—V. B. Wigglesworth—Chapman (Halsted Pr), 1974, 7th ed., 166 p., drawings, \$8.95; paper, \$4.95. Introductory survey for student and layman, covers subject from the structure of the cuticle to the endocrine system.

AN INTRODUCTION TO PHYSICAL OCEANOGRAPHY—William S. von Arx—A-W, 1975, 432 p., color plate, photographs, diagrams, maps, tables, \$15.95. Advanced undergraduate text treats aspects of the geophysical situation of the oceans, the physical concepts and interpretative theories related to the ocean-atmosphere system, and the practical side of the science.

INTRODUCTION TO PHYSICAL AND BIOLOGICAL OCEANOGRAPHY—Cuchlaine A. M. King—Crane-Russak, 1975, 372 p., photographs, diagrams, \$29; paper, \$13.50. Text deals with the character of ocean water, its circulation, currents, tides and waves. The biological part deals with productivity and exploitation, with the uses and problems of the oceans.

MAN AND HIS PHYSICAL ENVIRONMENT: Readings in Environmental Geology—Garry D. McKenzie and Russell O. Utgard, Eds.—Burgess, 1975, 2nd ed., 388 p., photographs, diagrams, tables, paper, \$6.95. Supplementary text, new section includes forecasts associated with energy, environment and the future of man.