

books OF THE WEEK

ABSTRACTING SCIENTIFIC AND TECHNICAL LITERATURE: An Introductory Guide and Text for Scientists, Abstractors and Management—Robert E. Maizell, Julian F. Smith and T. E. R. Singer—Wiley-Interscience, 1971, 297 p., diagrams, \$14.50. Text suitable for self-study, explains abstracting operations, specific techniques and the function of computer systems.

ANNUAL REVIEW OF FLUID MECHANICS, Vol. 3—Milton Van Dyke, Walter G. Vincenti and J. V. Wehausen, Eds.—Annual Reviews, 1971, 406 p., illus., \$10. Review articles on such topics as peristaltic pumping, collisionless shocks in plasmas, boiling, and gas dynamics of explosions.

BASIC PROTEIN CHEMISTRY—Anatoly Bezkorovainy—Thomas, C. C., 1970, 232 p., illus., \$16.25. Brief monograph, intended to provide an appreciation of the potentialities of protein chemistry and what type of information one can obtain on a protein with the techniques now in use.

BEFORE COLUMBUS: Links Between the Old World and Ancient America—Cyrus H. Gordon—Crown Pubs., 1971, 224 p., photographs, maps, \$6.50. Distinguished scholar draws on wide variety of authenticated sources to construct his evidence of ancient links between Mesoamerica and the civilizations of Europe, Africa and Asia.

THE BLUE WHALE—George L. Small—Columbia Univ. Press, 1971, 248 p., illus., tables, \$9.95. Documented study of the plight of the blue whale, the industrial economics of its decimation, national whaling policies and international whaling control.

THE BORN-EINSTEIN LETTERS with Commentaries by Max Born—Transl. from German by Irene Born, foreword by Bertrand Russell, introd. by Werner Heisenberg—Walker, 1971, 240 p., illus., \$8.50. The correspondence between Albert Einstein and Max and Hedwig Born from 1916 to 1955, together with extensive retrospective annotations, provide original source material of scientific and human interest.

THE CONTEMPORARY AMERICAN FAMILY—William J. Goode, Ed.—Quadrangle Bks., 1971, 302 p., \$8.95; paper, \$2.95. Analytical articles and summarizing introduction discusses the trends in mate choice and marriage, husband and wife relationships, family problems and new family forms.

EDGE OF A CONTINENT: The Pacific Coast from Alaska to Baja—Don Greame Kelley, foreword by Robert C. Miller—Am. West Pub. Co., 1971, 288 p., color plates, photographs, maps, \$17.50; until 12/31/71; \$13.95. Generously illustrated, with comprehensive account of the long curving shore, the islands and inlets, forests and deserts, glaciers and coastal waters, with reading list and glossary.

ENZYME SYNTHESIS AND DEGRADATION IN MAMMALIAN SYSTEMS—Miloslav Rechcigl, Ed.—Univ. Park Press, 1971, 477 p., diagrams, tables, \$17.50. Treatise offers a comprehensive review of the various factors that control enzyme activity as well as the regulatory mechanisms involved in enzyme synthesis and degradation.

EVOLUTION OF SEDIMENTARY ROCKS—Robert M. Garrels and Fred T. Mackenzie—Norton, 1971, 397 p., illus., \$11.50. Using a new approach to the study of materials transfer and change through time, the book treats the earth as a huge geochemical factory, and presents a synthesis of global data on earth processes.

GILBERT WHITE'S JOURNALS—Walter Johnson, Ed.—MIT Press, 1971, 463 p., illus., paper, \$3.95. Delightful summer reading of excerpts from naturalist's journals full of pre-

cise observations on English countryside flora and fauna, agriculture and the seasons in the 1790's.

HOPE FOR THE CITIES: A Systems Approach to Human Needs—Robert Lee Chartrand, Ed.—Spartan Bks., 1971, 224 p., illus., \$10.50. Members of Congress discuss with expert analysts such areas of public concern as environmental pollution, law enforcement and crime prevention, housing and urban planning.

IS THE GRASS GREENER? Answers to Questions About Drugs—Dorothy V. Whipple, M. D.—Luce (McKay), 1971, 224 p., \$5.95. Gives the straight facts about psychoactive drugs, what they are and what they do, the degree of harm they can do, the federal law and state penalties for their use, written by pediatrician for adolescents and adults who need to know the facts to make up their own minds.

LASER APPLICATIONS IN MEDICINE AND BIOLOGY, Vol. 1—M. L. Wolbarsht, Ed.—Plenum Press, 1971, 288 p., illus., \$18. Examines the most significant and promising uses of laser radiation in such areas as cell biology, dentistry and ophthalmology, and discusses the development of laser safety criteria.

THE LAST OF THE RULING REPTILES: Alligators, Crocodiles and Their Kin—Wilfred T. Neill—Columbia Univ. Press, 1971, 486 p., photographs, illus., maps, \$15.95. Deals broadly with crocodilian biology, the 200 million years of crocodilian history, the natural history of the American alligator and other modern crocodilians of the world.

THE LIFE OF MAMMALS, Vol. II—L. Harrison Matthews—Universe Bks., 1971, 440 p., 30 plates, drawings, \$12.50. Reviews comprehensively and in depth the orders and families of mammals, except primates, including the latest information about a large number of the approximately 4,200 living species. Discussion centers on habitats, behavior, ecology and ethology.

THE LIFE OF SHARKS—Paul Budker, transl. from French by Peter J. Whitehead—Columbia Univ. Press, 1971, 222 p., photographs, illus., \$12.50. Incorporates results of recent research in an authoritative account on the general form of sharks, their breeding biology, their feeding habits, anatomy, hazard and use to man, myths and legends.

MAYO CLINIC: Diet Manual—Committee on Dietetics of the Mayo Clinic—Saunders, 1971, 4th ed., 167 p., tables, paper, \$5.95. Guidelines to programs for therapeutic diets, described in technical terms and designed for uses by persons with training in medicine or dietetics.

METHADONE MAINTENANCE—Stanley Einstein, Ed.—Dekker, 1971, 249 p., illus., \$12.50. Papers describe and evaluate a variety of experiences in U.S. and Canadian programs for treating narcotics addicts with methadone. Contains critical review of questions and issues that need further research.

MUST THEY DIE? The Strange Case of the Prairie Dog and the Black-Footed Ferret—Faith McNulty—Doubleday, 1971, 86 p., photographs, \$4.95. Describes the natural habitat of the prairie dog and the role it plays in the almost extinct ferret's last stand in South Dakota.

THE NEW GUIDE TO STUDY ABROAD, 1971-1972 Edition—John A. Garraty, Walter Adams and Cyril J. H. Taylor—Harper, 1971, 456 p., woodcuts by Gail Garraty, \$8.95. A practical and up-to-date handbook of full-year and summer programs for high-school, college and graduate students, and teachers.

THE ORIGINS AND GROWTH OF ARCHAEOLOGY—Glyn Daniel—Crowell (Apollo), 1971, 298 p., illus., paper, \$4.95. Reprint (1968), illustrates by a carefully chosen series of extracts the way in which archaeology as a discipline has come into existence and how it worked as it grew.

ORIGINS OF LIFE: Proceedings of the First Conference—Lynn Margulis, Ed.—Gordon & Breach, 1970, 376 p., illus., \$29.50. Presents verbatim discussions by leading scientists of interdisciplinary investigations into the origins of life, the organic chemistry of the fossil record, prebiotic organic synthesis, and relevant exobiological problems.

PATHOLOGY OF SICKLE CELL DISEASE—Joseph Song—Thomas, C. C., 1971, 460 p., photographs, \$26. A reference book to the multiphasic manifestations of sickle cell anemia, discusses the hemoglobin molecule, genetic mutation, biochemical aspects, immunohematologic manifestations, incidence, complications and therapy.

PHYSICS AND ASTRONOMY OF THE MOON—Zdenek Kopal, Ed.—Academic Press, 1971, 2nd ed., 303 p., illus., \$15. Contributions focus on the motions of the moon in space, librations of the lunar globe, dynamics of the earth-moon system, optical properties of lunar surface, and the origin and history of the moon.

POISONED POWER: The case Against Nuclear Power Plants—John W. Gofman and Arthur R. Tamplin, foreword by Sen. Mike Gravel—Rodale Press, 1971, 368 p., illus., \$6.95. Presents all the arguments against a growing commitment to nuclear electricity.

PREHISTORIC AGRICULTURE—Stuart Streuver, Ed.—Natural Hist. Press., 1971, 733 p., maps, tables, \$8.95; paper, \$4.95. Focuses on the emergence of agriculture, the early domestication of plants and animals in different parts of the world.

PROCEEDINGS OF THE SYMPOSIUM ON SUBMILLIMETER WAVES, 1970—Jerome Fox, Ed.—Polytechnic Press (Wiley), 1971, 726 p., illus., \$25. Topics discussed range from the uses of sub-millimeter waves in science and technology, and the far infrared cosmic background, to cyclotron resonance at submillimeter wavelengths.

PROCESSES OF ORGANIC EVOLUTION—G. Ledyard Stebbins—Prentice-Hall, 1971, 2nd ed., 193 p., illus., \$7.50; paper, \$3.95. Unified review on the elementary level, emphasizes such vital processes as mutation, genetic recombination, natural selection and interaction of populations with their environment. Chapter on evolution in man is completely rewritten to incorporate latest findings.

RED GIANTS AND WHITE DWARFS: Man's Descent from the Stars—Robert Jastrow—Harper, 1971, rev. ed., 190 p., illus., \$6.95. Up-to-date, lucid and generously illustrated discussion of the most fundamental questions regarding the origin of our universe, the evolution of stars, planets and life, in layman's terminology.

RUSSIAN-ENGLISH DICTIONARY OF ELECTROTECHNOLOGY AND ALLIED SCIENCES—Paul Macura—Wiley-Interscience, 1971, 707 p., \$32.50. Some 60,000 entries cover the Russian vocabulary from accumulators to waveguides, includes transliterated names of foreign scientists, English equivalents of compound words, particles and synonyms.

SCIENCE AND CIVILIZATION IN CHINA, Vol. 4: Physics and Physical Technology, Part III: Civil Engineering and Nautics—Joseph Needham, Wang Ling and Lu Gwei-Djen—Cambridge Univ. Press, 1971, 931 p., photographs, drawings, maps, \$55. Continues definitive coverage of Chinese scientific history in road construction, buildings, bridges, hydraulic engineering, construction of sailing craft, junks and ships, navigation, propulsion and steering techniques.

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