

books OF THE WEEK

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ADVANCES IN GERM-FREE RESEARCH AND GNOTOBIOLOGY—M. Miyakawa and T. D. Luckey, Eds.—CRC Press, 1968, 439 p., illus., \$25. Includes the Proceedings of the International Symposium on Life Germfree Research held in Japan in 1967, dealing with methodology, nutrition and metabolism, response to trauma, immune response, etiologic responses, and germ-free plants and invertebrates.

ADVANCES IN WATER QUALITY IMPROVEMENT—Earnest F. Gloyna and W. Wesley Eckensfelder, Jr., Eds.—Univ. of Texas Press, 1968, 513 p., illus., \$15. Special lectures on wastewater handling, treatment and disposal, and the most recent progress in wastewater renovation, including specific developments in biological wastewater treatment.

AGRICULTURE AND THE QUALITY OF OUR ENVIRONMENT: A Symposium Presented at the 133rd Meeting of the American Association for the Advancement of Science, December, 1966—Nyle C. Brady, Ed.—AAAS, 1967, 460 p., diagrams, maps, \$13.50. Papers from a wide range of disciplines bring together the pertinent and essential facts about how agriculture affects and is affected by air, water and soil pollution.

A DICTIONARY OF ENGLISH WEIGHTS AND MEASURES: From Anglo-Saxon Times to the Nineteenth Century—Ronald Edward Zupko—Univ. of Wis. Press, 1968, 224 p., \$10. A comprehensive and documented compilation for scholars and students of economic history and the history of science, the book lists some 3000 entries, etymologies for the metrological units, some 25,000 metric and nonmetric variations, 3000 citations to variant spellings, appendixes contain definitions of terms and lists of laws.

DISLOCATION DYNAMICS—Alan R. Rosenfield and others, Eds.—McGraw-Hill, 1968, 776 p., illus., \$25. Contains proceedings of the second Battelle Memorial Institute Colloquium in Materials Science which brought together in lectures and research papers the various approaches to the study of moving dislocations and summarized the critical problems of the field.

THE EARLY DAYS OF MAN—Roy E. C. Burrell, foreword by C. C. Lamberg-Karlovsky—McGraw-Hill, 1968, 169 p., illus., by Tony Dyson and the author, maps, \$4.95. A concise review of man's prehistoric past as archaeologists have only recently discovered and made it known.

GROWTH OF A PREHISTORIC TIME SCALE: Based on Organic Evolution—William B. N. Berry—Freeman, 1968, 158 p., illus., \$5.75; paper, \$2.50. Tells the story of the principles used to interpret geological time, and deals with the growth of units of the time scale used as a standard reference by geologists.

A GUIDE TO THE NATIONAL PARKS: Their Landscape and Geology, Vol. II: The Eastern Parks—William H. Matthews III, foreword by Paul M. Tilden—Natural Hist. Press, 1968, 287 p., 75 photographs, drawings, maps, \$6.95. A practical guide to the geology of mountains, geysers, caverns, lakes and rock formations of the Eastern Parks, from Acadia in Maine to Wind Cave in South Dakota.

HIGH ENERGY ASTROPHYSICS, Vol. III: General Relativity and High Density Astrophysics—C. DeWitt, E. Schatzman and P. Veron, Eds.—Gordon & Breach, 1968, 449 p., illus., \$12.50. Lectures delivered at Les Houches during the

1966 summer school, devoted to problems of extreme densities, in particular to gravitational collapse and the structure of neutron stars.

LEGAL ORDER IN A VIOLENT WORLD—Richard A. Falk—Princeton Univ. Press, 1968, 610 p., \$15. A scholarly interpretation of the relation of law and violence in contemporary international society, with emphasis on the two special challenges to world order in our time—nuclear weapons and civil strife.

LIFE, DEATH AND THE DOCTOR—Louis Lasagna, M.D.—Knopf, 1968, 334 p., \$6.95. Practicing physician's essays on health problems of importance both to society and the medical profession.

THE MERCK INDEX: An Encyclopedia of Chemicals and Drugs—Paul G. Stecher, Ed.—Merck & Co., 1968, 8th ed., 1713 p., diagrams, \$15. Offers descriptive monographs of more than 9,500 chemicals and drugs arranged alphabetically by generic name, illustrated with chemical structures, giving information on medical uses and toxicity, cross-index lists 42,000 entries.

MINERALS YEARBOOK 1966, Vol. III: Area Reports, Domestic—Bureau of Mines Staff—GPO, 1968, 891 p., diagrams, \$3.75. Contains chapters covering each of the 50 states, the U.S. island possessions in the Pacific Ocean and the Caribbean, Puerto Rico and the Canal Zone.

ON THE ROYAL HIGHWAYS OF THE INCA: Archaeological Treasures of Ancient Peru—Heinrich Ubbelohde-Doering—Praeger, 1967, 311 p., 304 plates, illus., map, \$17.50. Presents in photographic-essay form a study of at least three pre-Columbian cultures illustrated by excavations throughout the coastal regions and Andean highlands of Peru, based on the finds of four expeditions between 1931 and 1964.

ORGANIC EXPERIMENTS—Louis F. Fieser—Raytheon Educ. Co., 1968, 2nd ed., 343 p., illus., \$7.50. This edition incorporates five new experiments on kinetics, order of a reaction and mechanisms.

ORGANOMETALLIC COMPOUNDS, Vol. II: The Transition Elements—M. L. H. Green—Methuen (Barnes & Noble), 1968, 3rd ed., 376 p., diagrams, \$16. Deals with one to seven-electron ligands, presenting a treatment of the metal-ligand bonding of the various organic ligand types and of the preparation and properties of the different classes of complexes.

THE PELICAN HISTORY OF PSYCHOLOGY—Robert Thomson—Penguin Bks., 1968, 464 p., paper, \$1.45. Outlines the birth of psychology in the early 19th century, Darwin's impact, the achievements of the first generation of German, British, French and American psychologists, the major theories of Freud, Jung and the behaviorists, and postwar developments.

THE PHONETIC SPELLER—Joseph Farkas—Walden Bks., 1968, 331 p., \$5. This dictionary offers to find the spelling of some 50,000 words by listing alphabetically arranged word skeletons that leave out all vowels and silent letters and use a given key for all consonant sounds.

POLITICS AND TELEVISION—Kurt Lang and Gladys Engel Lang—Quadrangle Bks., 1968, 315 p., \$6.95. Sociologists take a look at the ways in which television, through its presentation of events, shapes public images of political life and personalities.

PROCEEDINGS OF THE 1968 HEAT TRANSFER AND FLUID MECHANICS INSTITUTE, held at University of Washington, 1968—Ashley F. Emery and Creighton A. Depew, Eds.—Stanford Univ. Press, 1968, 272 p., diagrams, \$10. Papers range from a review and proposition for high velocity wake turbulent transport study to analysis of axisymmetric supersonic turbulent base flow.

THE PROGRAMMER'S PL/I: A Complete Reference—Charles Philip Lecht, foreword by Robert Bemmer—McGraw-Hill, 1968, 427 p., \$11.95. Defines and discusses the latest combined scientific and commercial computer language, outlines rules for writing a PL/I program, covers input/output, asynchronous operation, list processing, and other practical application details.

PROPULSION WITHOUT WHEELS—E. R. Laithwaite—Hart Pub. Co., 1968, 273 p., illus., \$15. A study of the principles of the linear

induction motor, gives instructions for making working models within the capabilities of a school workshop.

PUT-OFFS AND COME-ONS: Psychological Maneuvers and Stratagems—A. H. Chapman, M.D.—Putnam, 1968, 258 p., \$5.95. A useful explanation of common, daily behavior with which people try to achieve their ends, based on experience with neurotic patients from the author's practice.

QUARTERLY REVIEWS OF BIOPHYSICS, Vol. 1, No. 1, May 1968—Arne Engstrom, Ed.—Cambridge Univ. Press, 126 p., photographs, diagrams, paper, \$4.50; quarterly, \$16.50 annually. Official publication of the International Union for Pure and Applied Biophysics, reviews scientific advances in the field of biophysics.

RACE RELATIONS—Michael Banton—Basic Bks., 1968, 434 p., diagrams, maps, \$7.95. Brings together a great deal of pertinent material in an attempt to review the most instructive discoveries and lines of reasoning in the field of race relations, with particular attention to the regions where studies have been most intensive and in the English language.

RAISING YOUR CHILDREN: What Behavioral Scientists Have Discovered—Frank R. Donovan, intro. by Ashley Montagu—Crowell, 1968, 248 p., \$5.95. As a guide to parents for applying common sense and judgment in child rearing, the author presents the numerous scientific theories based on research, under such headings as heredity, intelligence, personality, dominance vs. permissiveness, and other traits of behavior.

THE RISE OF ANTHROPOLOGICAL THEORY: A History of Theories of Culture—Marvin Harris—Crowell, 1968, 806 p., \$16.50. A critical evaluation of theories of culture from 1750 to the present, relating the shifting viewpoints to major trends in Western culture and society over the past 200 years.

THE SEA BRINGS FORTH—Jack Rudloe—Knopf, 1968, 261 p., plates, illus., by Ingrid Niccoll, \$6.95. Narrative by a professional collector of biological specimens for scientists, mainly exotic sea creatures from shore and oceans.

SCIENTIFIC AND TECHNICAL SOCIETIES OF THE UNITED STATES—National Academy of Sciences—NAS, 1968, 8th ed., 221 p., \$12.50. Alphabetical listing with keyword index and geographical index. New edition does not include Canadian societies, and limits listings to those membership societies devoted to a particular scientific or technical discipline and primarily committed to the study, development and dissemination of knowledge in the disciplines represented.

SPECTRAL LINE FORMATION—John T. Jeffries—Blaisdell Pub. Co., 1968, 298 p., diagrams, \$10.50. Presents comprehensive treatment of the non-LTE theory of spectral line formation with emphasis on those problems encountered in astrophysics.

STIMULUS AND RESPONSE: The Law of Initial Value—Joseph Wilder, M.D.—Wright & Sons (Williams & Wilkins), 1967, 352 p., diagrams, \$14. A comprehensive presentation and discussion of the large-scale differences that exist in the response of individuals even under equal experimental conditions and must be taken into consideration in evaluating experiments on living organisms.

STRAIN GAUGES: Kinds and Uses—Hermann K. P. Neubert—St. Martin's Press, 1968, 164 p., illus., \$7. An introduction to the physical background and practical application of all kinds of strain gauges, including wire resistance, semiconductor and transducer types.

A TEACHER IS MANY THINGS—Earl V. Pullias and James D. Young—Indiana Univ. Press, 1968, 295 p., \$6.75. Drawing upon their own experience in teaching, the authors describe and evaluate the successful teacher's many roles as guide, model, searcher, learner, conserver, modermizer and many more.

VACUUM SYSTEM DESIGN—N. T. M. Dennis and T. A. Heppell—Chapman & Hall (Barnes & Noble), 1968, 223 p., illus., \$8. Presents the subject to be of use to those concerned with the selection of vacuum components or the design and operation of process plant.

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