

books OF THE WEEK

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THE FITNESS OF MAN'S ENVIRONMENT: Smithsonian Annual II—Robert McC. Adams and others, introd. by Rt. Hon. Jennie Lee—Smithsonian Inst. Press, 1968, 250 p., \$5.95. Twelve contributions on the theme that man can no longer afford to alter his environment without recognizing that environment is the dynamic sum of its interrelated parts.

FORGOTTEN SCRIPTS: How they were deciphered and their impact on contemporary culture—Cyrus H. Gordon—Basic Bks., 1968, 175 p., illus., \$6.95. Explains to the layman the methods of cryptanalysis and describes the decipherment of such ancient languages as Egyptian, Old Persian, Sumero-Akkadian, Hittite, Ugaritic and Minoan.

MARINE CHEMISTRY, Vol. 1: Analytical Methods—Dean F. Martin—Dekker, 1968, 280 p., \$5.75. First of two-volume work, contains thorough examination and discussion of current laboratory procedures for analyzing common constituents of natural waters, with theory and practice presented as an integrated whole.

MORE ABOUT LEMMO: The Adventures of a Puma—Stanley E. Brock—Taplinger, 1968, 188 p., photographs by author, \$5.95. Stories about an untamed but friendly mountain lion, jaguar, otter, tapir, ocelot and other animals.

MURDER ON PAD 34—Erik Bergaust—Putnam, 1968, 253 p., \$5.95. A frankly critical review of the business and human elements involved in the U.S. space program, with particular attention to the Apollo disaster on its launching pad in January 1967.

PILOT'S GUIDE TO AN AIRLINE CAREER—W. L. Traylor—Aviation Bk. Co., 1968, 161 p., photographs, \$5.95. An airline pilot tells what the actual requirements are for qualifying and preparing for the career of a civilian flight officer.

POLDERLANDS—Paul Wagret, transl. from French—Methuen (Barnes & Noble), 1968, 288 p., photographs, illus., maps, \$10. Revised and updated comprehensive work first published in 1959, deals with those regions of low-lying coasts, lagoons, salt marshes and swamps which through drainage, sea defenses and other reclamation techniques have been turned into valuable, arable land.

PREDACEOUS NEMATODES (MONONCHIDAE) OF OREGON—Harold J. Jensen and Roland H. Mulvey—Ore. State Univ. Press, 1968, 57 p., illus., paper, \$2. Describes morphological features of the mononchids and presents taxonomic study of the accumulated Oregon representatives.

PRINCIPLES OF DATA COMMUNICATION—R. W. Lucky, J. Salz and E. J. Weldon, Jr.—McGraw-Hill, 1968, 433 p., diagrams, \$14.50. A reference source for communication engineers, covers recent research results as well as current design principles with emphasis on the theoretical approach.

THE RAYS ARE NOT COLOURED: Essays on the Science of Vision and Colour—W. D. Wright—Am. Elsevier Pub. Co., 1968, 154 p., color plates, diagrams, \$5.95. Essays range from discussion of three-dimensional diffraction to diagnostic tests for color vision.

SCANNING ELECTRON MICROSCOPY: Applications to Materials and Device Science—P. R. Thornton—Chapman & Hall (Barnes & Noble), 1968, 368 p., 12 plates, diagrams, \$12.75. A book about the fundamentals and physical ideas underlying the application of SEM, discussing fully the interactions between electron beam and solid specimens.

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SUPERCONDUCTIVITY IN SCIENCE AND TECHNOLOGY—Morrel H. Cohen, Ed.—Univ. of Chicago Press, 1968, 163 p., diagrams, \$5.95. Edited proceedings of a 1966 conference held at University of Chicago, papers deal with theories, superconductive tunneling, quantum engineering and economic aspects of superconductivity.

UNEXPECTED TREASURE—Hope Sawyer Buyukmihci with Hans Fantel—Evans & Co., (Lippincott), 1968, 190 p., illus. by John Pimlott, \$4.95. Wildlife observations on a 250-acre farm in New Jersey.

VANISHING TRIBES—Roy Pinney—Crowell, 1968, 272 p., photographs, \$7.95. Examines the variety of ingenious designs for living developed by a representative sampling of some 30 primitive peoples throughout the world, from the Tuareg and the Watusi of Africa to the Yapese and Manus of Oceania.

VHF HAM RADIO HANDBOOK—Edward G. MacKinnon—TAB Bks., 1968, 176 p., diagrams, \$6.95; paper, \$3.95. Explains to the amateur many of the VHF-UHF techniques in practice today with projects for the advanced experimenter.

WATERFOWL: Their Biology and Natural History—Paul A. Johnsgaard, introd. by Peter Scott—Univ. of Neb. Press, 1968, 138 p., 148 p'ates (59 in color), drawings, \$8.95. Covers the entire Anatidae family based on the author's personal study of all but six of the 142 extant species, their distribution, migration, ecology, social behavior, breeding biology, evolution and hybridization.

THE WISWESSER LINE-FORMULA CHEMICAL NOTATION—As revised by Elbert G. Smith in collaboration with group of users—McGraw-Hill, 1968, 309 p., diagrams, \$15. Detailed presentation, rules and examples of the revised Wiswesser notation system for expressing concisely and accurately the structural formulas of chemistry.

WORLD POPULATION: An Analysis of Vital Data—Nathan Keyfitz and Wilhelm Flieger—Univ. of Chicago Press, 1968, 672 p., \$16.50. Tabular summaries of official data on births, deaths and population, by age and sex, past and projected, calculations of life tables which conform to those data and facilitate comparisons of mortality and fertility among countries and moments of time, and additional measures of interest to specialists.

TEXTBOOKS

BASIC BIOLOGICAL CHEMISTRY—Henry R. Mahler and Eugene H. Cordes—Harper, 1968, 527 p., illus., \$10.75. This shorter one-semester biochemistry text, differs from BIOLOGICAL CHEMISTRY (1966) in that it replaces mathematical statements with qualitative ones, introduces thermodynamics earlier and shifts emphasis from physical chemistry of macromolecules and kinetics to metabolism and molecular biology.

BIOCHEMISTRY: A Brief Course—Abraham Mazur and Benjamin Harrow—Saunders, 1968, 450 p., illus., \$8.75. Presents the core of biochemistry in a one-semester course for undergraduates majoring in physics, chemistry or chemical engineering.

BIOLOGY—Helena Curtis—Worth Pubs., 1968, 854 p., photographs, two-color drawings, \$10.75. Addressed to students taking biology as their first science course in college, deals broadly with the fundamental questions and concerns of biology, with many schematic illustrations added for clarity.

BIOLOGY TEACHER'S GUIDE—John H. Rosengren—Parker Pub. Co., 1968, 227 p., illus., \$6.95. Written to help teacher present high school biology courses, discusses materials and teaching techniques, special problems in teaching biology, in-service education and student teachers.

COLLEGE PHYSICS—Physical Science Study Committee. Uri Haber-Schaim and others, Eds.—Raytheon Educ. Co., 1968, 717 p., illus., \$9.95. Based on and incorporates much of the second edition of PSSC PHYSICS and Advanced Topics Supplement, intended for those students entering college without previous physics course.

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COLLEGE PHYSICS: Laboratory Guide—Physical Science Study Committee, Educational Development Center—Raytheon Educ. Co., 1968, 106 p., illus., paper, \$2.25. Features 61 experiments with a minimum of technical instructions and maximum challenge to students guided merely by leading questions.

DEVELOPMENTAL BIOLOGY: A Laboratory Manual—Joseph W. Vanable, Jr. and James H. Clark—Burgess, 1968, 182 p., illus., paper, \$5. Areas of inquiry in this manual extend to exploring problems in the development of a fern gametophyte or a cellular slime mold slug.

LEARNING, LANGUAGE AND COGNITION: Theory, Research and Method for Study of Human Behavior and Its Development—Arthur W. Staats—Holt, 1968, 614 p., illus., \$9.50. Addressed to the advanced student of educational psychology, the book demonstrates the author's work on the learning conception of human behavior, the stimulus-response mechanism, and the function of language as well as its development.

INTRODUCTORY PLANT SCIENCE—Henry T. Northern—Ronald Press, 1968, 3rd ed., 586 p., illus., \$9.50. This revised botany text maintains balance between the molecular and the descriptive, and stresses the plant as a whole and its relationship to the environment as a central theme.

MODERN PHYSICS—John E. Williams and others—Holt, 1968, 707 p., illus., \$6.64. Revised high school text, features at end of each chapter two sets of problems to challenge the more advanced students.

PRACTICAL INORGANIC CHEMISTRY: Preparations, Reactions and Instrumental Methods—Geoffrey Pass and Haydn Sutcliffe—Chapman (Barnes & Noble), 1968, 225 p., diagrams, \$6.50. The underlying theme of this undergraduate text is the correlation of theory with practice, each chapter ending with complementary exercises which require the study of listed references.

PRINCIPLES OF MICROBIOLOGY AND IMMUNOLOGY—Bernard D. Davis and others—Harper, 1968, 853 p., illus., \$14.95. Intended for non-medical graduate students and biologists, this text excerpts from MICROBIOLOGY (1967) the parts concerned with general properties of microbes, molecular genetics and immunology.

QUANTITATIVE CHEMICAL ANALYSIS—Gilbert H. Ayres—Harper, 1968, 2nd ed., 710 p., illus., \$11.95. Presents full year's course work covering both theory and practice of fundamental principles of elementary quantitative analysis; expanded new edition uses the IUPAC (Stockholm) conventions of electrochemistry.

PROCEEDINGS OF THE SECOND HAWAII TOPICAL CONFERENCE IN PARTICLE PHYSICS (1967)—S. Pakvasa and S. F. Tuan, Eds.—Univ. of Hawaii Press, 1968, 466 p., diagrams, paper, \$6.75. Contains papers on field-current identity, the CP violation problem, and the quark model on the theoretical side as well as experimental data on the status of CP violation, and hadron spectroscopy.

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