

books OF THE WEEK

THE ANIMALS CAME IN—John Hughes—Taplinger, 1971, 125 p., photographs, \$4.95. Sympathetic story about the care given to the sick and abandoned animals brought to an animal shelter in Britain.

THE ANNUAL GUIDES TO GRADUATE STUDY, 1971: Book III, Biological and Health-Related Sciences—Karen C. Hegener, Ed.—Peterson's Guides, 1119 p., illus., paper, \$10. Contains directory and full-page program descriptions prepared by current faculty heads.

THE ANNUAL GUIDES TO GRADUATE STUDY, 1971: Book VII, Engineering and Applied Sciences. Book VIII, Physical Sciences—Karen C. Hegener, Ed.—Peterson's Guides, 1970, 565 p., 718 p., illus., paper, \$8 each. Contains directory statistics and full-page program descriptions.

BRYOZOANS—J. S. Ryland—Hillary House Pubs., 1970, 175 p., illus. \$5; paper, \$2.50. Written comprehensively for both geologists and zoologists, the book provides a simple account of the structure, evolution, physiology and ecology of extant bryozoans, as well as a discussion of their fossil history.

CRC HANDBOOK OF LABORATORY SAFETY—Norman V. Steere, Ed.—Chemical Rubber Co., 1970, 2nd ed., 854 p., illus., \$24.50. Provides information for hazard recognition and control, with new chapters on protective equipment. Comprehensive fire and health hazard data for 1094 chemicals are listed in tables.

THE CHEMICAL PATHOLOGY OF RHEUMATOID ARTHRITIS—H. F. West—Thomas, C. C., 1970, 85 p., \$7. Appraises critically the chemical pathology of this systemic disease of connective tissues, comparing the known morphology and clinical events with experimental data and possible etiologies.

CHEMICAL TECHNOLOGY, AN ENCYCLOPEDIA TREATMENT, Vol. II: Non-Metallic Ores, Silicate Industries and Solid Mineral Fuels—L. W. Codd and others, Eds., T. J. W. van Thoor, Gen. Ed.—Barnes & Noble, 1971, 828 p., illus., \$40. Treats the economic application of modern technological developments in non-metallic minerals and rocks, based on work originally devised by the late J. F. van Oss.

CONFLICTS IN URBAN EDUCATION—Sheldon Marcus and Harry N. Rivlin, Eds.—Basic Bks., 1971, 196 p., \$6.95. Eleven contributions by leading spokesmen, educators and public officials concerned with the problems of city school systems.

THE CONTAINMENT OF LATIN AMERICA: A History of Myths and Realities of the Good Neighbor Policy—David Green—Quadrangle Bks., 1971, 370 p., \$10. A study of the contradictions and tensions that beset the relations between Latin American nationalist governments and U.S. policy makers during the so-called "golden age" of inter-American relations.

CULTURE OUT OF ANARCHY: The Reconstruction of American Higher Learning—Judson Jerome—Herder & Herder, 1970, 330 p., \$9.50. A critical examination of the current state of higher education in the U.S., together with profiles of the more advanced experimental colleges and a look into the future.

FISH AND INVERTEBRATE CULTURE: Water Management in Closed Systems—Stephen H. Spotte—Wiley-Interscience, 1970, 145 p., illus., \$8.95. A source for fish culturist, experimental biologists and aquarists, treats biological, mechanical and chemical filtration and the CO₂ system, and deals with respiration, salts and elements, toxic metabolites, and disease prevention by environment control.

THE FRIENDLY BEASTS: Latest Discoveries in Animal Behavior—Vitus B. Dröscher, transl. from German—Dutton, 1971, 248 p., photographs, drawings, \$8.95. Brings together many of the latest findings revealing new ways in animals, especially in relation to those of man, showing that animals share impulses and reactions hitherto regarded as exclusively human.

GUIDE TO LOCATING NEW PRODUCTS—TTA Information Services, 1971, 66 p., paper, \$25. Provides information about 125 publicly and privately-owned organizations that specialize in locating and/or developing new products for corporate clients.

AN INTRODUCTION TO LIQUID HELIUM—J. Wilks—Oxford Univ. Press, 1970, 165 p., diagrams, vinyl cover, \$4.50. Abridgment of the author's **THE PROPERTIES OF LIQUID AND SOLID HELIUM**, presents an introductory account of the main properties of both liquid ³He and liquid ⁴He.

SPACESHIP EARTH: A Space Look at Our Troubled Planet—Don Dwiggin—Golden Gate Jr. Bks., 1970, 80 p., photographs, diagrams, \$4.50. Making use of aerial and satellite photography, the book offers a revealing view of the environmental problems created by man.

THE STARS IN THEIR COURSES—Isaac Asimov—Doubleday, 1971, 199 p., \$5.95. Rational and readable essays on a variety of topics, from the origins of astrology to the moral responsibilities of scientists to their societies and of societies to the earth they live on.

THE STRATEGY OF TECHNOLOGY: Winning the Decisive War—Stefan T. Possony and J. E. Pournelle, foreword by Craig Hosmer—Dunellen, 1970, 189 p., \$7.50. On the relation of strategy to technology, the present conduct of technological war, strategic analysis, strategems of surprise, the technology of active defense, nuclear weapons, small wars and security through arms control.

SYMBIOSIS—William Trager—Van Nostrand Reinhold, 1971, 100 p., illus., paper, \$3.95. Deals with the mutually beneficial associations between different kinds of organisms and shows how studies of symbiosis lead to better understanding of fundamental problems in biology.

TRANSFERABLE DRUG RESISTANCE FACTOR R—Susumu Mitsuhashi, Ed.—Univ. Park Press, 1971, 203 p., diagrams, \$14.50. Summarizes research findings on resistance-transfer factors, their epidemiology, genetic properties and physiology, and the biochemical mechanisms of R factor resistance.

THE TRUTH ABOUT DRUGS—Geoffrey Austrian—Doubleday, 1971, 131 p., photographs, \$3.50; paper, \$1.75. Simple presentation of known facts about the use of mind-affecting drugs and their effects.

VITAMINS IN ENDOCRINE METABOLISM—I. W. Jennings—Thomas, C. C., 1971, 148 p., diagrams, \$7. Intended to bridge the gap between scientists studying nutritional disease problems in the diverse fields of endocrinology, enzymology, pathology and vitamin research.

WHAT A PIECE OF WORK IS MAN: Introductory Readings in Biology—James D. Ray, Jr., and Gideon E. Nelson—Little, Brown, 1971, 371 p., photographs, paper, \$3.95. Designed to stimulate beginning students, this anthology treats aspects of heredity, health, drugs, environment, nutrition, birth control and population.

YOUR SKIN—Margaret O. Hyde—McGraw-Hill, 1971, 141 p., illus., \$4.95. Simple outline of the structure and function of skin, its health and care.

YOUR THYROID GLAND: Fact and Fiction—Joel I. Hamburger, M.D.—Thomas, C. C., 1970, 77 p., illus., \$5.75. Helps the patient with thyroid disease to understand his condition, the methods used and the reasoning behind its management.

TEXTBOOKS

BIOMEDICAL ENGINEERING—J. H. U. Brown, John E. Jacobs and Lawrence Stark—Davis, F. A., 1971, 448 p., diagrams, \$15. Introduces the student to basic principles of modeling, system theory, control, biological system analysis, instrumentation, biomaterials, development of instruments and devices, and engineering in the delivery of health services.

ELEMENTS OF QUANTUM MECHANICS WITH CHEMICAL APPLICATIONS—Jean Barriol, transl. from French by J. Warren Blaker—Barnes & Noble, 1971, 377 p., diagrams, vinyl cover, \$7.95. Text develops the fundamental principles of quantum chemistry by treating the ideas of wave mechanics and the formalism of quantum mechanics along with numerous examples from areas of atomic and molecular structure.

INTRODUCTION TO NATURAL SCIENCE, Part II: The Life Sciences—V. Lawrence Parsegian and others—Academic Press, 1970, 727 p., illus., \$10.95. High school course, contains throughout optional sections in color intended for the better prepared student who had the advantage of improved courses in physics, chemistry or biology.

INTRODUCTION TO THE CHEMISTRY OF ENZYME ACTION—A. Williams—McGraw-Hill, 1970, 131 p., diagrams, \$7.25. Text reviews the body of mechanistic information concerning enzymatic reactions, and offers a simple introduction to mechanism in enzyme catalysis.

AN INTRODUCTION TO THE MEANING AND STRUCTURE OF PHYSICS: Short Edition—Leon N. Cooper—Harper, 1970, 534 p., photographs, diagrams, \$11.95. Some of the more difficult technical variations of the earlier (1968) text have been deleted and a number of problems have been added.

ORE DEPOSITS—Charles F. Park, Jr. and Roy A. MacDiarmid—Freeman, 1970, 2nd ed., 522 p., illus., \$11. Text presents in an orderly fashion the principles and data basic to understanding the genesis and localization of the metallic ores and the nonmetallic ores associated with them.

PLANT CELL PHYSIOLOGY: A Physicochemical Approach—Park S. Nobel—Freeman, 1971, 267 p., diagrams, \$7.75. For the advanced undergraduate and beginning graduate student, text emphasizes the underlying concepts that contribute to a broad physicochemical understanding of physiological processes, particularly *in vivo*.

PROPERTIES OF MATTER—B. H. Flowers and E. Mendoza—Wiley, 1970, 319 p., illus., \$15.50. Provides a basis for the study of matter by describing its atomic and molecular nature and by showing how the macroscopic behavior of matter can be related to its fundamental structure.

THE VERTEBRATE BODY—Alfred Sherwood Romer—Saunders, 1970, 4th ed., 601 p., illus., \$10.25. Revised text incorporates new factual data and new interpretations of the evolutionary history of vertebrates.

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