

books OF THE WEEK

THE AMERICAS AND CIVILIZATION—Darcy Ribeiro, transl. from Portuguese by L. L. Barrett and M. McDavid Barrett—Dutton, 1971, 510 p., \$15.75. Brazilian anthropologist's original studies of the historical, cultural and economic factors that determine the make-up of the populations of the countries of Central and South America.

ASPIRATIONS AND AFFLUENCE: Comparative Studies in the United States and Western Europe—George Katona, Burkhard Strumpel and Ernest Zahn—McGraw-Hill, 1971, 239 p., tables, \$12.95. Survey reports on some scientific comparisons of the interaction between man and his economic environment in the U.S., Great Britain, Germany, Holland, France and Belgium.

CRC HANDBOOK OF BIOCHEMISTRY: Selected Data for Molecular Biology—Herbert A. Sober, Ed.—Chemical Rubber Co., 1970, 2nd ed., approx. 1700 p., diagrams, tables, \$33.50. Thoroughly revised, with expanded sections on abbreviations and nomenclature, amino acids, peptides and proteins, purines, pyrimidines and nucleotides, nucleic acids, genetics and biology, physical and chemical data, and miscellaneous.

CRC PHYSICAL AND ENGINEERING ASPECTS OF THERMAL POLLUTION—Frank L. Parker and Peter A. Krenkel—CRC Press, 1970, 100 p., illus., \$12.25. Authoritative and comprehensive summary of present knowledge of the mechanism and effects of heated water discharges, cooling ponds and cooling towers, and comparison of cooling methods.

CHANGE IN ALASKA: People, Petroleum and Politics—George W. R. Rogers, Ed.—Univ. of Wash. Press, 1971, 213 p., photographs, maps, \$7.95. Based on selected material from the Twentieth Alaska Science Conference in 1969, focusing on the economics of petroleum in Alaska, and on public policy for the Alaska environment.

COLOR BLINDNESS: An Evolutionary Approach—Ricardo Cruz-Coke, M.D.—Thomas, C. C., 1970, 156 p., diagrams, \$8.75. An account of the causes, origins, occurrences and evolutionary development of defective color vision, deals with the relevant aspects of physics, physiology, biology, genetics and clinical medicine.

CREATIVITY: A Discussion at the Nobel Conference, 1970—John D. Roslansky, Ed.—Fleet Academic Editions, 1971, 90 p., \$7.50. Five lectures by J. Bronowski, D. MacKinnon, W. F. Libby, W. Arrowsmith and G. Parks.

CREEP OF CONCRETE: Plain, Reinforced and Prestressed—A. M. Neville—Am. Elsevier Pub. Co., 1970, 622 p., diagrams, \$34.50. Up-to-date treatment by active researcher, deals with creep as a property of concrete; under different states of stress; mechanism, hypotheses and expressions for creep; apparatus and methods for measurement; effects of creep in arches, beams and shells.

THE DETERMINATION OF ORGANIC PEROXIDES—R. M. Johnson and I. W. Siddiqi—Pergamon Press, 1970, 119 p., diagrams, tables, \$6.75. Brings together the analytical chemistry of the organic peroxides and the corresponding analytical methods for their separation and estimation.

A DICTIONARY OF NAMED EFFECTS AND LAWS in Chemistry, Physics and Mathematics—D. W. G. Ballantyne and D. R. Lovett—Chapman (Barnes & Noble), 1971, 3rd ed., 335 p., diagrams, \$9.50. Revised edition contains 400 new entries in modern physics, especially in nuclear terminology.

THE DRUG EPIDEMIC: What it Means and How to Combat it—Sesley C. Wesley—Dial Press, 1970, 163 p., \$4.95. Concerned with treating both the difficult victims and the society, the book includes glossary of terms and list of referral services in the U.S.

THE EBONY ARK: Black Africa's Battle to Save its Wild Life—Eric Robins—Taplinger, 1970, 185 p., photographs, map, \$6.50. Tells about what some of the governments and peoples of Africa are doing to preserve their wildlife.

ELECTRICAL ASPECTS OF COMBUSTION—James Lawton and Felix J. Weinberg—Oxford Univ. Press, 355 p., illus., \$11.20. Monograph is entirely devoted to the formation, behavior in fields, diagnostics, and uses of ions, electrons and charged particles in combustion processes.

ELECTRONIC DESIGNER'S HANDBOOK: A Practical Guide to Transistor Circuit Design—T. K. Hemingway—TAB Bks., 1970, 2nd ed., 296 p., diagrams, \$9.95. Revised work includes 80 diagrams that have been modified and updated.

ESSAYS ON BERTRAND RUSSELL—E. D. Klemke, Ed.—Univ. of Ill. Press, 1971, 458 p., \$10.95. Twenty-six essays arranged under three main headings: Russell's ontology, his theories of reference and descriptions, and his philosophy of logic and mathematics.

FACETS OF PHYSICS—D. Allan Bromley and Vernon W. Hughes—Academic Press, 1970, 219 p., diagrams, \$11.50. Symposium papers deal with such topics as the nucleon-nucleon interaction, nuclear matter, consequences of the short-range nature of nuclear forces, interactions of complex nuclei, and isotope shift.

THE FAT-SOLUBLE VITAMINS—H. F. DeLuca and J. W. Suttie, Eds.—Univ. of Wis. Press, 1970, 531 p., illus., \$15. Using the interdisciplinary approach, the book combines the most recent research advances in the mechanism of action of vitamins A, D, E and K, with an overview of past findings.

GALILEO STUDIES: Personality, Tradition and Revolution—Stillman Drake—Univ. of Mich. Press, 1970, 289 p., diagrams, \$8.50. A scholarly assessment which focuses on the individuality of Galileo's creative work, with the aim to see Galileo's work as he himself approached and evaluated it.

A GIFT OF LIFE: Observations on Organ Transplantation—Roy Calne—Basic Bks., 1970, 117 p., illus., \$5.95. Short outline attempts to clarify the basic principles and problems of organ transplantation.

GLOBAL GEOPHYSICS—R. H. Tucker and others—Am. Elsevier Pub. Co., 199 p., diagrams, \$7. A survey of the field, deals successively with the earth as a planet, its shape and gravitational field, its properties as an elastic body, and its behavior as a great magnet.

GUIDE TO AMERICAN GRADUATE SCHOOLS—Herbert B. Livesey and Gene A. Robbins—Viking Press, 1970, 2nd ed., 410 p., \$12.95; paper, \$5.95. Graduate study and admissions information on more than 600 accredited institutions, alphabetically arranged, with fields-of-study index for every graduate program, both major and sub-divisions.

HUMAN INFANTS: Experience and Psychological Development—Burton L. White—Prentice-Hall, 1971, 160 p., illus., \$4.95. Reports on the current state of knowledge concerning the role of early experience, discusses recent additions to what is known about infant behavior and the major issues in current research.

INTRODUCTION TO MODERN BEHAVIORISM—Howard Rachlin—Freeman, 1970, 208 p., illus., \$6; paper, \$2.95. Designed to supplement standard textbooks in introductory psychology and animal learning, the book tries to give an idea of what sort of things behaviorists do and why they do them.

THE LATER YEARS OF CHILDBEARING—Larry L. Bumpass and Charles F. Westoff—Princeton Univ. Press, 1971, 168 p.,

tables, \$7.50. Final report of a long-range study in American fertility begun in 1957, covers such topics as stability of family-size desires, prediction of fertility, and social and psychological influences on fertility.

MATHEMATICAL REFLECTIONS—Assn. of Teachers of Mathematics, Eds.—Cambridge Univ. Press, 1970, 244 p., illus., \$11.50. Contributions to mathematical thought and teaching, written in memory of A. G. Sillitto, who has been influential in reshaping the teaching and learning of mathematics in Scottish schools.

METHODS OF HYDROBIOLOGY (Freshwater Biology)—Jürgen Schwoerbel—Pergamon Press, 1970, 200 p., photographs, drawings by Walter Söllner, \$8. Discusses the techniques used for the study of standing and flowing waters in relation to the free water and bottom zones, and deals with the methods for the preservation of groups of freshwater organisms.

THE MICROBES—Hubert A. Lechevalier and David Pramer—Lippincott, 1971, 507 p., illus., \$14.75. Source of information on the molecular, biochemical and evolutionary aspects of microbiology, treats in detail the bacteria, fungi, algae, protozoa and viruses.

MOLDERS OF MODERN THOUGHT—Ben B. Seligman, Ed.—Quadrangle Bks., 1970, 365 p., paper, \$2.95. Essays, drawn from the New York Times magazine, interpret major ideas of Western thought today.

NUCLEAR REACTOR THEORY—George I. Bell and Samuel Glasstone—Van Nostrand Reinhold, 1970, 619 p., diagrams, \$24.50. Explains the main physical ideas and mathematical methods used in modern nuclear reactor theory. Special emphasis is placed on developing the multigroup methods which are used for solving neutron diffusion and transport problems in reactor design studies.

'POPULATION CONTROL' THROUGH NUCLEAR POLLUTION—Arthur R. Tamplin and John W. Gofman, foreword by Paul R. Ehrlich—Nelson-Hall Co., 1970, 242 p., \$6.95. Layman's introduction to the hazards of low-dose radiation in the environment, presented by two nuclear scientists highly critical of present official safety levels.

THE SHARKS—Robert F. Burgess—Doubleday, 1971, 159 p., illus., tables, \$3.95. Summarizes the history, habits, and anatomy of sharks, including some aids to their identification.

STELLAR ATMOSPHERES—Dimitri Mihalas—Freeman, 1970, 463 p., diagrams, \$16. Monograph and graduate-level text, explains how astrophysicists use the theory of radiative transfer to describe the flow of energy through the stellar atmosphere and to predict the spectrum emergent from the surface of the star.

SUMMER JOBS: World-Wide Summer Placement Directory, 1971—A. L. and Beth Versen, Eds.—Advancement & Placement Institute, 1971, 118 p., illus., paper, \$6. Compiled specifically for teachers and college students, describes opportunities for vacation employment in the United States and abroad.

URBAN CLIMATES: Proceedings of Symposium on Urban Climates and Building Climatology, 1968—World Meteorological Organization—UNIPUB, 1970, 390 p., illus., paper, \$14. Topics range from airflow in urban areas, and discussion of variation of global radiation in Budapest, to climatological aspects of town-planning in various latitudes.

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