

Books of the Week

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ABUNDANCE FOR WHAT? and Other Essays—David Riesman—Doubleday, 610 p., \$6.50. Essays probing into the meaning of work, the forms of leisure and the purposes of individual and group life in the "post-industrial" middle-class American society.

ADVANCES IN CLINICAL CHEMISTRY, Vol. 6—Harry Sobotka and C. P. Stewart, Eds.—Academic Press, 397 p., illus., \$14. Among the topics discussed are enzymatic determinations of glucose, magnesium, and normal and abnormal human hemoglobins.

ADVANCES IN IMMUNOLOGY, Vol. 3—F. J. Dixon Jr. and J. H. Humphrey, Eds.—Academic Press, 408 p., \$13. Includes articles concerned with biological effects of antigen-antibody interactions, immune adherence and blood groups in animals other than man.

AFRICAN ECOLOGY AND HUMAN EVOLUTION—F. Clark Howell and Francois Bourliere, Eds.—Aldine Pub. Co., 666 p., illus., \$12.50. A scholarly international survey of African Pleistocene environments and the cultural and biological evolution of man.

ATHEROSCLEROSIS AND ITS ORIGIN—Maurice Sandler and Geoffrey H. Bourne, Eds.—Academic Press, 570 p., illus., \$22. Covers the field of atherosclerosis with emphasis on the human lesion, articles discuss the role of ground substance, hemodynamics, serum lipids, diet, hormones and the intrinsic metabolism of the arterial wall in the development of the lesion.

BACKGROUND INFORMATION ON ATOMIC POWER SAFETY—John F. Hogerton—Atomic Industrial Forum, 52 p., illus., paper, \$1 direct to publisher, 850 Third Ave., New York 22, N.Y. Presents radioactive materials handling, accident prevention and atomic power plant regulations in terms the layman can understand.

BIOLOGY OF CORAL ATOLLS: BSCS Pamphlet 10—Richard A. Booloootian—AIBS (Heath), 36 p., illus., paper, 60¢, set of 8 pamphlets per school year, \$4. Reading material for curriculum enrichment in high school biology classes.

BIOLOGY OF THE PROSTATE AND RELATED TISSUES—Erwin P. Vollmer, Ed.—National Cancer Institute (GPO), 446 p., illus., \$4. Workshop papers and discussion of comparative morphology, factors controlling growth and function, biochemical considerations and experimental prostatic tumors.

CARBON-14: A Comprehensive Annual Bibliography of Applications in Chemistry, Biology and Medicine, Vol. 1—R. S. Schaffenberg and John K. Pollard Jr.—CALBIOCHEM, 140 p., paper, \$7; commercial ed. with catalog free upon request direct to publisher, 3625 Melford St., Los Angeles 63, Calif. Contains 1,722 references from 1962 literature on Carbon-14.

CLASSIFICATION AND HUMAN EVOLUTION—Sherwood L. Washburn, Ed.—Aldine Pub. Co., 371 p., illus., \$7.50. Authoritative summary of the

classification of fossil primates and the hypothetical evolutionary lines of man.

CONVEX FIGURES AND POLYHEDRA—L. A. Lyusternik, transl. from Russian by T. Jefferson Smith—Dover, 176 p., diagrams, paper, \$1.50. Translation of work first published in Moscow in 1956.

THE DISCOVERY OF THE ELECTRON: The Development of the Atomic Concept of Electricity—David L. Anderson—Van Nostrand, 138 p., diagrams, paper, \$1.50. Presents the case history of the experimental and conceptual developments that gave us our current ideas about the nature of electrons in particular and electricity in general.

ELEMENTARY PARTICLES—David H. Frisch and Alan M. Thorndike—Van Nostrand, 153 p., photographs, diagrams, paper, \$1.75. Presents a sample of experimental methods and theoretical ideas in this field of physics, in terms a reader familiar with general physics without knowledge of quantum mechanics might understand.

ECOLOGY—Peter Farb and The Editors of LIFE—Time Inc. Bks., 192 p., illus., maps, \$3.95 direct to publisher, 540 N. Mich. Ave., Chicago, Ill. 60611. This latest volume in the Life Nature Library tells in picture, word and chart the story of the interrelationship of living things with their surroundings.

EDISON—Rex Beasley, foreword by Herbert Hoover—Chilton Bks., 176 p., illus., \$4.50. A very readable biography of the great inventor, for young people.

THE EDUCATION OF A PHYSICIAN—Anthony E. Neville and James D. Dilts, Eds.—Johns Hopkins Univ., 90 p., photographs by Robert Phillips, paper, \$1.25 direct to publisher, Box 1240, Baltimore, Md. 21218. This picture-essay story follows a group of medical students through their modern medical school training.

ELECTRIC WAVES: Being Researches on the Propagation of Electric Action with Finite Velocity Through Space—Heinrich Hertz, transl. from German by D. E. Jones, preface by Lord Kelvin—Dover, 279 p., diagrams, paper, \$1.75. First published in 1893.

ELEMENTS OF ASTROMECHANICS—Peter van de Kamp—Freeman, 140 p., diagrams, \$4; paper, \$2. A concise introduction to basic concepts of astromechanics, using simple illustrations in discussing the motions of planets, single and double stars, and artificial satellites.

ESSAYS ON THE THEORY OF NUMBERS: I. Continuity and Irrational Numbers. II. The Nature and Meaning of Numbers—Richard Dedekind, transl. from German by Wooster Woodruff Beman—Dover, 115 p., paper, \$1. Reprint of English translation first published in 1901.

EXCAVATIONS AT UR: A Record of Twelve Years' Work—Sir Leonard Woolley—Barnes & Noble, 2nd ed., 256 p., 32 plates, illus., \$5. An account of the Joint Expedition of the British Museum and of the University Museum of Pennsylvania to Mesopotamia.

HOMEOSTATIC REGULATION: BSCS Pamphlet 9—Thomas G. Overmire—AIBS (Heath) 36 p., illus., paper, 60¢; subscription to 8 monthly pamphlets \$4. First in the 1963-64 curriculum enrichment series for high school biology students.

HOW TO STOP SMOKING IN FIVE DAYS—J. Wayne McFarland, M.D. and Rev. Elman J. Folkenberg—Prentice-Hall, 92 p., \$3.95. Step-by-step advice for breaking the smoking habit, based on practical method that has been tested in clinics.

A HUNDRED YEARS OF METALLURGY—W. H. Dennis—Aldine Pub. Co., 342 p., diagrams, \$8.95. A comprehensive review of metallurgical prog-

ress from the beginning of the Age of Steel to the present.

INORGANIC COMPLEXES—Chr. Klixbull Jorgensen—Academic Press, 220 p., \$7.50. A survey of recent progress made in the understanding of chemical bonding and preparation of unexpected inorganic compounds, with emphasis on visible and ultra-violet spectra and on static properties.

METHODS IN COMPUTATIONAL PHYSICS: Advances in Research and Application, Vol. 2: Quantum Mechanics—Berni Alder, Sidney Fernbach and Manuel Rottenberg, Eds.—Academic Press, 271 p., \$10. Progress report on useful methods of current interest, such as atomic self-consistent field calculations by the expansion method.

THE MYSTERIOUS SKY—Lester del Rey—Chilton Bks., 183 p., photographs, \$3.95. Highly readable introduction to man's probing of the atmosphere, planets, galaxies, time and space.

OPTICKS or A Treatise of the Reflections, Refractions, Infections & Colours of Light—Sir Isaac Newton, foreword by Albert Einstein, introd. by Sir Edmund Whittaker; preface by I. Bernard Cohen, analytical table of contents by Duane H. D. Roller—Dover, 406 p., illus., paper, \$2.25. Based on the fourth edition, London, 1730.

THE PRESIDENT'S ADVISORY COMMISSION ON NARCOTIC AND DRUG ABUSE: Final Report, Nov. 1963—E. Barrett Prettyman, Chmn.—GPO, 123 p., paper, 55¢. Commission's recommendations for a program to prevent the abuse of drugs and to provide rehabilitation for habitual drug misusers.

PRINCIPLES OF NUMERICAL TAXONOMY—Robert R. Sokal and Peter H. A. Sneath—Freeman, 359 p., illus., \$8.50. A general introduction to the field, stressing quantitative methods. Instead of qualitatively appraising resemblance of organisms, the new evaluation by numerical methods with the help of computers aims at more objective and repeatable methods for the erection and analysis of taxa.

RADIATION AND RADIOISOTOPES APPLIED TO INSECTS OF AGRICULTURAL IMPORTANCE: Proceedings of 1963 Symposium held in Athens—E. Horber, Ed.—IAEA (Internat'l Pubs., N. Y.), 508 p., illus., paper, \$10. Papers and discussions on tracer applications in insect-plant relationships, on labeled insecticide studies and radiation studies of sterile-male technique.

THE SEA: Ideas and Observations on Progress in the Study of the Seas, Vol. 3: The Earth Beneath the Sea and History—M. N. Hill, Ed.—Interscience, 963 p., illus., \$28. A comprehensive and balanced account of the geophysical exploration of the ocean floor, topography, structure, sedimentation and the preserved record.

SMOKING AND HEALTH: Report of the Advisory Committee to the Surgeon General of the Public Health Service—Stanhope Bayne-Jones and others—PHS (GPO), 387 p., paper, \$1.25. For story see SNL, Jan. 25, 1964, p. 51.

SOLID STATE PHYSICS: Advances in Research and Applications, Vol. 15—Frederick Seitz and David Turnbull, Eds.—Academic Press, 505 p., diagrams, \$16.50. On the various thermal properties of simple solids and liquids, the dynamical theory of X-ray diffraction, electron-phonon interaction, and elementary optical properties of solids.

SURVEY OF PROGRESS IN CHEMISTRY, Vol. 1—Arthur F. Scott, Ed.—Academic Press, 340 p., illus., \$7.95. Aimed at chemistry teachers and active chemists to bring them up to date on developments in new research tools of chemists, high temperature reactions, the chemistry of biological energy transfer and other advances.

TREATISE ON LIGHT. In which are explained the causes of that which occurs in Reflexion & in Refraction and particularly in the strange Refraction of Iceland Crystal—Christiaan Huygens, rendered into English by Sylvanus P. Thompson—Dover, 128 p., diagrams, paper, \$1.35. Reprint (1912) of translation of work first published in Holland in 1690.

VAPOR PRESSURE OF THE CHEMICAL ELEMENTS—A. N. Nesmeyanov, transl. from Russian by Scripta Technica, ed. by Robert Gary—Elsevier Pub. Co. (N. Y.), 462 p., diagrams, \$17.50. Authoritative and critical evaluation of all vapor pressure data available on the elements excepting hydrogen, oxygen and the "inert" gases.

THE WORLD OF THE BOBCAT—Joe Van Wormer—Lippincott, 125 p., photographs by author, \$4.95. Gives the reader an understanding of the native wild cousin of the domestic cat, as it lives through the seasons.

• Science News Letter, 85:108 Feb. 15, 1964

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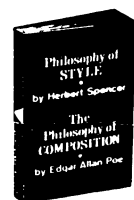


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