

Books of the Week

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AMERICAN MEN OF SCIENCE: A Biographical Directory. The Physical & Biological Sciences: SUPPLEMENT 3—Jacques Cattell Press, Eds.—Bowker, 11th ed., 1967, 223 p., paper, \$15. Latest semi-annual supplement, incorporates revisions and additions to the first four volumes (A-O names) of the six-volume biographical directory.

ANALYTICAL CHEMISTRY OF PLUTONIUM—M. S. Milyukova and others, transl. from Russian—IPST (Daniel Davey), 1967, 369 p., diagrams, \$21. The monograph is a collective work of a group of Soviet scientists with extensive experience in developing analytical methods for plutonium, it includes studies up to 1963.

ANNUAL REVIEW OF ASTRONOMY AND ASTROPHYSICS, Vol. 5—Leo Goldberg, David Layzer and John G. Phillips, Eds.—Annual Reviews, 1967, 694 p., illus., \$8.50. Topics covered range from magnetic field of the sun and the interpretation of double-star statistics to OH molecules in the interstellar medium, quasi-stellar objects, and gamma radiation from celestial objects.

EDUCATORS GUIDE TO FREE TAPES, SCRIPTS AND TRANSCRIPTIONS—Walter A. Wittich and Gertie Hanson Halsted, Eds.—Educators Progress Service, 14th ed., 1967, 157 p., paper \$6.75. Annotated listing of titles, gives running time, release dates, terms of loans; cross-indexed, with 133 new titles starred.

ELECTRICAL CHARACTERISTICS OF TRANSISTORS—R. L. Pritchard—McGraw-Hill, 1967, 715 p., diagrams, \$19.50. Text offers review of the fundamental properties of transistors and describes in considerable detail the difference between practical transistor structure and the usual simplified models. Up-to-date bibliography of 1,000 papers is included.

THE GENETIC CODE: The Molecular Basis for Genetic Expression—Carl R. Woese—Harper, 1967, 200 p., illus., \$9.50; paper, \$5.95. An attempt to weave the facts known about the genetic code into the larger, biological context, chapters consider the basic nature of the genetic code and the processes of information transfer.

GODS, GRAVES AND SCHOLARS: The Story of Archaeology—C. W. Ceram, transl. from German by E. B. Garside and Sophie Wilkins—Knopf, 2nd ed., 1967, 455 p., 24 plates, illus., maps, \$7.95. This substantially expanded and revised edition of the popular "classic" covers new developments and concludes with a summary of important new findings and methods for archaeological research.

THE HEALTH CONSEQUENCES OF SMOKING: A Public Health Service Review, 1967—National Clearinghouse for Smoking and Health, Albert C. Kolbye, Staff Dir.—PHS (GPO), 199 p., paper, 60¢. See story SN: 9/2/67, p. 227.

HIDE-AND-SEEK: The Effect of Mind, Body and Emotion on Personality and Behavior in Ourselves and Others—Charles H. Knickerbocker, M.D.—Doubleday, 1967, 352 p., \$5.95. A practicing physician, not a psychiatrist, the author reviews with the help of case studies a wide

range of emotional disorders, defining in layman's language the various forms of mental imbalance.

IBN AL-MUTHANNA'S COMMENTARY ON THE ASTRONOMICAL TABLES OF AL-KHWARIZMI—Transl. from Hebrew and ed. by Bernard R. Goldstein—Yale Univ. Press, 1967, 408 p., diagrams, \$17.50. This translation of both the Michael and the Parma version of the 9th century work provides an example of early transmission of Hindu astronomy to the Islamic world.

"IN THE WILDERNESS IS THE PRESERVATION OF THE WORLD"—Selections & photographs by Eliot Porter, intro. by Joseph Wood Krutch—Sierra Club-Ballantine Bks., 1967, 160 p., 72 color photographs, paper, \$3.95. Paper edition in smaller format but produced with the same superb color separation process that made the original Sierra Club book (1962) such a unique tribute to the natural beauty of U.S. forests.

THE LAST TRUMPETERS—Ross E. Hutchins—Rand McNally, 1967, 64 p., illus., by Jerome P. Connolly, \$2.95. Simply told, informative conservation story about the rare trumpeter swans.

THE LOGIC OF SWITCHING CIRCUITS: A First Course in Boolean Algebra—George P. Rouillard—Exposition Press, 1967, 122 p., diagrams, \$5.50. Designed as a supplementary reading text and self-study for beginners.

THE MIDDLE-CLASS NEGRO IN THE WHITE MAN'S WORLD—Eli Ginzberg with Vincente Bryan and others—Columbia Univ. Press, 1967, 182 p., \$5. Analytical study of material gathered through personal interviews conducted by Negro interviewers in Atlanta and New York. The group whose aims were studied ranged from high school to college seniors not handicapped by either economic or emotional deprivation.

NRC REVIEW '67—National Research Council of Canada—Queen's Printer (Ottawa, Canada), 1967, 372 p., paper, \$2. Annual report, reviews the research activities in the natural sciences and engineering at Canadian national laboratories, lists committees and staff membership.

1967 STEAM TABLES: Thermodynamic Properties of Water and Steam, Viscosity of Water and Steam, Thermal Conductivity of Water and Steam—The Electrical Research Association, Research Advisory Committee—St. Martins, 1967, 156 p., graphs, \$18.50. This systematic revision of data on the thermodynamic properties of steam incorporates a considerable body of reliable data accumulated through experimental work during the past 30 years.

OPTICAL ROTARY DISPERSION AND CIRCULAR DICHROISM IN ORGANIC CHEMISTRY including Applications from Inorganic Chemistry and Biochemistry—G. Sznatke, Ed.—Sadtler Research Labs., (Philadelphia, Pa.), 1967, 416 p., diagrams, \$13.50. Proceedings of NATO Summer School held at Bonn in 1965, intended to serve as an introduction to ORD and CD; discusses their application to various stereochemical problems.

ORDERED TOPOLOGICAL VECTOR SPACES—Anthony L. Peressini—Harper, 1967, 228 p., \$10.25. This systematic treatment of the theory includes detailed discussions of vector lattices, Choquet simplexes, normal cones, order topologies and order properties of spaces of continuous linear mappings.

OUR PRESENT KNOWLEDGE OF THE UNIVERSE—Sir Bernard Lovell—Harvard Univ. Press, 1967, 104 p., photographs, diagrams, \$2.95; paper, \$1.80. Series of rewritten lectures given in 1966 to a nonprofessional audience on the main problems radio astronomers encounter in the development of the science of astronomy from purely optical observations to the radio, satellite and spaceprobing investigations of today.

THE SOLAR GRANULATION—R. J. Bray and R. E. Loughhead—Chapman & Hall (Barnes & Noble), 1967, 150 p., plates, illus., \$11. Written primarily for solar physicists, this first detailed account of the properties of the solar granulation and its physical interpretation may provide astrophysicists with the necessary observational basis for improving the theory of convection under the conditions prevailing in stars.

STUDY FASTER AND RETAIN MORE—The Reading Laboratory—World Pub. Co., rev. ed., 1967, 94 p., illus. by Roy Doty, paper, \$1.95. Shows students how to acquire more effective study habits.

THERMOELECTRIC AND THERMOMAGNETIC EFFECTS AND APPLICATIONS—T. C. Harman and J. M. Honig—McGraw-Hill, 1967, 377 p., diagrams, \$17.50. Provides a detailed description of selected topics that deal with galvano-thermoelectric phenomena in solids, with special reference to their application in energy conversion processes.

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