

books OF THE WEEK

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ADVANCES IN INFRARED GROUP FREQUENCIES—L. J. Bellamy—Methuen (Barnes & Noble), 1958, 304 p., \$10.50. Supplement to the author's **INFRARED SPECTRA OF COMPLEX MOLECULES**, should be of interest to all concerned with the interpretation of infrared spectra.

THE ANALYSIS OF INDETERMINATE STRUCTURES—Alan Williams, foreword by R. H. Evans—Hart Pub. Co., 1968, 324 p., diagrams, \$12. Emphasizes the most recently developed techniques which provide rapid and economical solutions for a variety of complex frames, together with the fundamental theory necessary for their understanding.

ANIMALS AT BAY: Rare and Rescued American Wildlife—Adrien Stoutenburg—Doubleday, 1968, 159 p., illus. by John Schoenherr, \$3.50. Handsomely illustrated, brief account of more than thirty different species threatened with extinction today.

ANNUAL REVIEW OF ASTRONOMY AND ASTROPHYSICS, Vol. 6—Leo Goldberg, David Layzer and John G. Phillips, Eds.—Annual Reviews, 1968, 528 p., plates, diagrams, \$8.50. Papers and literature reviews cover such topics as measurement of stellar diameters, intergalactic matter, physics of comet tails, and variable radio sources.

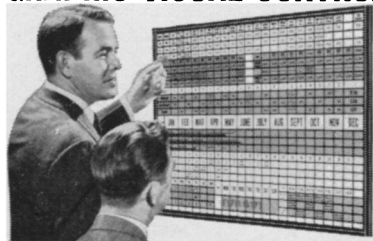
THE ART OF SOUTHEAST ASIA: Cambodia, Vietnam, Thailand, Laos, Burma, Java, Bali—Philip Rawson—Praeger, 1968, 288 p., photographs, maps, \$7.50. Pictures the influence of Indian themes and patterns in the expression of the arts and architecture of Southeast Asia.

THE BIG MACHINE—Robert Jungk, transl. from German—Scribner, 1968, 245 p., plates, \$6.95. The story of scientific research in the high energy laboratories in Europe, the United States and the Soviet Union, giving a background for the debate on the costly proton synchrotron accelerators planned at CERN headquarters and at Weston, Ill.

A CONCISE ENCYCLOPEDIA OF ASTRONOMY—A. Weigert and H. Zimmermann, transl. from German by J. Home Dickson—Am. Elsevier Pub. Co., 1968, 368 p., 20 plates, illus., \$9. An alphabetical compilation of articles on and definition of astronomical terms, from "aberration" to "zone of avoidance."

CONSERVATION AND CARIBBEAN REGIONAL PROGRESS—Carl A. Carozzi and Alice A. Carozzi—Caribbean Research Inst. (Antioch Press), 1968, 151 p., illus. by Christine Sena, map, \$4. Study presents a partial inventory of the natural and historic resources of the Lesser Antilles, from the Virgin Islands to Trinidad, listing sites most worthy of protection, reclamation or development.

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DESIGNING FOR THE DISABLED—Selwyn Goldsmith—McGraw-Hill, 1968, 2nd rev. ed., 207 p., 281 illus., \$15. Handbook provides architects, civic planners, welfare workers and the medical profession with practical solutions to accommodate the disabled in public and private environments.

DISPOSAL OF PROCESS WASTES: Liquids, Solids, Gases—Otto Jaag and others, transl. from German by Max Wulfinghoff—Chemical Pub. Co., 1968, 240 p., illus., \$12.50. Symposium of papers presented at the ACHEMA meeting at Frankfurt/Main, 1964, discussing the nature of contamination of man's environment and suggesting new techniques and equipment to combat the menace.

HALDANE AND MODERN BIOLOGY—K. R. Dronamraju, Ed.—Johns Hopkins Press, 1968, 333 p., illus., \$10.95. Contributions by distinguished scientists reflect the versatile influence of the mathematical biologist on such diverse branches of science as genetics, evolutionary theory, biochemistry, physiology and biometry.

HELIUM: Child of the Sun—Clifford W. Seibel—Univ. Press of Kansas, 1968, 138 p., 16 plates, illus., \$4.95. The history of the development of helium from a curiosity in a chemical laboratory to its role in current space technology, prepared under the auspices of the U.S. Bureau of Mines to mark the centennial of helium's discovery.

INTERNATIONAL CHEMICAL EDUCATION, THE HIGH SCHOOL YEARS: Proceedings, ACS Conference 1967—Robert L. Silber, Chrm., O. Theodor Benfey and Saul L. Geffner, Eds.—Am. Chemical Soc., 1968, 135 p., illus., paper, \$3. Reports and discussion of progress in curriculum development, teaching aids and techniques in high school chemical education in the United States and abroad.

THE LAND RENEWED: The Story of Soil Conservation—William R. Van Dersal—Walck, 1968, rev. ed., 160 p., photographs, \$6. Well illustrated outline of the main factors of conservation of the land.

THE MCGRAW-HILL ENCYCLOPEDIA OF SPACE—Foreword by M. Scott Carpenter—McGraw-Hill, 1968, 831 p., photographs, diagrams, \$27.50; \$23.50 until 1/1/69. Written by more than 150 scientists and space technology experts, the volume covers the fundamentals of space science and the achievements of U.S., Russian and European space programs.

MANUAL OF COLOR AERIAL PHOTOGRAPHY—John T. Smith, Jr. and Abraham Anson, Eds.—Am. Soc. of Photogrammetry, 1968, 550 p., photographs, diagrams, maps, \$22.50. Superbly illustrated, comprehensive presentation of the scope, cameras, optics and filters, chemistry and processing of films, techniques of color printing, metric quality, and photographic interpretation of color aerial photographs in a wide range of applications.

THE MINERALS KINGDOM—Paul E. Desautels—Ridge Press (Grosset & Dunlap), 1968, 252 p., 140 color photographs by Lee Boltin, \$14.95. An introduction to minerals and crystals through a selected sampling of certain areas, such as gem stones, classic treasure sites, mineral masterpieces, minerals at work, and the connoisseur.

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MODERN TV CIRCUIT & WAVEFORM ANALYSIS—Stan Prentiss—TAB Bks., 1968, 256 p., illus., \$7.95; paper, \$4.95. For the professional technician, emphasizes the use of a triggered sweep oscilloscope to diagnose TV circuit troubles efficiently.

TEXTBOOKS

ADVANCED ORGANIC CHEMISTRY: Reactions, Mechanisms and Structure—Jerry March—McGraw-Hill, 1968, 1098 p., diagrams, \$16.75. Designed as a second-year course textbook at the undergraduate or graduate level, the material is organized on the basis of reaction types.

THE COMPUTER AND CHEMISTRY: An Introduction to Programming and Numerical Methods—T. R. Dickson—Freeman, 1968, 216 p., diagrams, \$5.75. Designed as a basic text in computer programming for chemists, presents rules and procedures for using FORTRAN, and shows how numerical methods may be applied to different chemical problems.

THE ELECTRICAL ACTIVITY OF THE NERVOUS SYSTEM: A Textbook for Students—Mary A. B. Brazier—William & Wilkins, 1968, 3rd ed., 317 p., photographs, diagrams, \$10.50. Offers a survey of the electrical activity of the brain, includes up-to-date bibliographies.

EXPERIMENTS IN CHEMISTRY—F. R. Longo and others—McGraw-Hill, 1968, 295 p., illus., \$4.50. Laboratory program for freshmen, designed to teach techniques useful in all fields of experimental science and engineering, the experiments are made as quantitative as possible, with students often asked to make calculations with their data and draw their own conclusions.

INVERTEBRATE ZOOLOGY—Robert D. Barnes—Saunders, 1968, 2nd ed., 743 p., illus., \$10.50. Updated, reorganized and expanded text, incorporating the more significant developments of recent years.

PRINCIPLES OF BIOCHEMISTRY—Abraham White, Philip Handler and Emil L. Smith—McGraw-Hill, 1968, 4th ed., 1187 p., diagrams, \$17.50. Reorganized and partly rewritten text for medical students, also a useful review for practicing physicians who wish to keep up with developments in biochemistry.

PRINCIPLES OF ORGANIC CHEMISTRY—T. A. Geissman—Freeman, 1968, 3rd ed., 883 p., illus., \$12. Textbook for a one-year college course, emphasizes the nature of the important types of organic reactions rather than the descriptions of classes of compounds.

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