

Books of the Week

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AN ADMINISTRATIVE HISTORY OF NASA, 1958-1963—Robert L. Rosholt—NASA (GPO), 381 p., charts, paper, \$4. The administrative history of a government agency during a particularly dynamic period, based on documentary analysis.

AEROSPACE MEDICINE AND BIOLOGY: An Annotated Bibliography, Cumulative Indexes, 1952-1961 Literature—Roman Kenk and Elaine S. Valliere, Eds.—Science and Technology Div., Lib. of Congress (CFSTI), 184 p., paper, \$2.25. Contains alphabetically arranged author, corporate author and subject indexes for Volumes I-X.

ANNUAL FLOWERS IN COLOR: A Practical Homeowner's Guide—Paul F. Frese, foreword by Charles L. Weddle—Grosset & Dunlap, 144 p., photographs, illus., \$4.95. A guide to the selection, care and cultivation of annuals.

AUTOMOBILES: How They Work—Charles Yerlow—Putnam, 95 p., illus., \$2.86. Introduces young readers to the various functioning parts of the automobile.

THE BEAR FAMILY—Dorothy Wood—Harvey House, 45 p., illus. by Harriett, maps, \$2.75. Observes a black bear in its natural surroundings and tells children about other species.

THE BIRTH OF MATHEMATICS IN THE AGE OF PLATO—Francois Lasserre—World Pub. Co., 191 p., diagrams, paper, \$1.65. Traces the steps that led to the advent of theoretical mathematics, documenting and assessing the contributions of Plato's disciples and contemporaries.

THE CACTI OF CALIFORNIA—E. Yale Dawson—Univ. of Calif. Press, 64 p., 47 color photographs, illus., paper, \$1.50. Excellent little handbook for field trips.

THE CLIMATE OF SOUTHERN CALIFORNIA—Harry P. Bailey—Univ. of Calif. Press, 87 p., color plates, maps, paper, \$1.75. Guide to a climate of more than local interest, explains summer and winter circulations, inversion, smog, fire, flood and drought conditions.

COUNSELING AND PSYCHOTHERAPY: Classics on Theories and Issues—Ben N. Ard, Jr., Ed.—Science & Behavior Bks., 322 p., vinyl cover, \$5.95. Brings together contrasting views to make the student and practitioner aware of the variety of different theories in the field.

DESIGN FOR A WORLDWIDE STUDY OF REGIONAL DEVELOPMENT: A Report to the United Nations on a Proposed Research-Training Program—Resources for the Future Staff—Johns Hopkins Press, 82 p., paper, \$1.50. This report explores how best to study and understand the complexities of regional development efforts.

EDUCATION AND THE SPIRIT OF SCIENCE—Educational Policies Commission, Arthur F. Corey, Chm.—NEA, 27 p., \$1.25; paper, 35¢ direct to NEA, 1201 16th St., NW, Washington, D.C. 20036. Recommendations for promoting the understanding of the values on which the development of science is based.

ESSAYS IN BIOCHEMISTRY, Vol. 2, 1966—P. N. Campbell and G. D. Greville, Eds.—Academic Press, 227 p., plates, diagrams, vinyl cover, \$5.50. This second volume in series sponsored by the Biochemical Society deals with animal hexokinases, steroidal oral contraceptive agents and mechanisms of protein evolution.

THE ETIOLOGY OF THE NEUROSES—Joseph H. Merin, Ed. and Simon H. Nagler, Assoc. Ed.—Science & Behavior Bks., 164 p., vinyl cover, \$4.95. Presents a reevaluation of the causes of neuroses by psychoanalytic practitioners, basic scientists and researchers.

THE EVOLVING SOCIETY: Proceedings of the First Annual Conference on the Cybercultural Revolution: Cybernetics and Automation—Alice Mary Hilton, Ed.—Institute for Cybercultural Research, 410 p., illus., \$8.95. Papers and panel discussions on basic assumptions, computing machines and cybernated systems, and on the evolving and the future society.

HAGAN'S INFECTIOUS DISEASES OF DOMESTIC ANIMALS: With Special Reference to Etiology, Diagnosis and Biologic Therapy—Dorsey William Bruner and James Howard Gillespie—Cornell Univ. Press, 5th ed., 1105 p., illus., \$15. Authoritative and comprehensive text, fully revised to include new information since the last edition five years ago.

IRONMAKING CONFERENCE 1964—D. J. Enochs and W. D. Gifford, Eds.—AIME (Gor-

don & Breach), 426 p., illus., \$15. Reports on blast furnaces and burden material preparation.

THE NATURE OF THE LUNAR SURFACE: Proceedings of the 1965 IAU-NASA Symposium—Wilmot N. Hess, Donald H. Menzel and John A. O'Keefe, Eds.—Johns Hopkins Press, 320 p., photographs, diagrams, maps, \$13.50. Presents the general trends of scientific opinion about the lunar surface with special reference to the Ranger photographs.

OLDER PALEOZOIC METAMORPHISM AND PEGMATIZATION IN THE BRONX, NEW YORK—Arthur M. Langer—N.Y. Acad. of Sciences, Vol. 136, Art. 1, 32 p., photographs, diagrams, maps, paper, \$2. Geological study of the Botanical Garden area, a part of the Manhattan formation occupying a critical position in the interpretation of the stratigraphy of New York City.

OPTICAL SCANNING FOR THE BUSINESS MAN—Ralph Dyer and others—Hobbs, Dorman & Co., 190 p., illus., \$14.50. A comprehensive appraisal of the development of optical scanning technology in layman's language, covers application of scanners in control and data processing systems and discusses optical scanning potential to science, commerce and industry.

PERSONALITY AND PRODUCTIVITY IN MANAGEMENT—James H. Mullen—Temple Univ. (Columbia Univ. Press), 140 p., diagrams, \$4.50. A research study of division leadership based on five years' observations in the context of the organizational environment.

PLANT PHYSIOLOGY: A Treatise, Vol. IVB: Metabolism: Intermediary Metabolism and Pathology—F. C. Steward, Ed.—Academic Press, 599 p., diagrams, \$22. This part deals with carbohydrates and their role in plant metabolism and nutrition, organic acids, plant lipids, and the physiology of parasitic disease.

RADIOISOTOPE INSTRUMENTS IN INDUSTRY AND GEOPHYSICS, Vols. I and II—E. Doyle, Ed.—IAEA (Nat. Agency for Internat'l Pubs.), 577 p., 477 p., illus., \$12, \$10. Proceedings of 1965 Symposium held in Warsaw. Vol. I deals with industrial applications, X-ray fluorescence analysis, thickness, density and level gauges; Vol. II, with geophysical applications, neutron and gamma-gamma methods, and density moisture gauges.

RUBBER: It's Made Like This—F. George Kay—Roy Pubs., 58 p., 38 plates, \$3.25. Dramatic short review of the processes of rubber manufacture, from tree to molded tire, from isoprene to latex.

SCIENCE AND THE SECRETS OF MAN'S PAST—Franklin Folsom, foreword by Bernard Wailes—Harvey House, 192 p., illus. by Ursula Koering, \$5. Introduces young people to the sequence of events and the dating methods used in reconstructing Man's past.

SCIENTIFIC INFORMATION ACTIVITIES OF FEDERAL AGENCIES: U.S. Army, Part I—National Science Foundation—GPO, 30 p., paper, 20¢. Presents current information about source material of interest to the scientific community that is available from the Corps of Engineers and the Army Medical Research and Development Command.

STEEL: It's Made Like This—Kenneth Ulllyett—Roy Pubs., 72 p., 29 plates, illus., \$3.25. Shows in text and pictures the powerful machinery that turns raw materials into ingots.

UNDERWATER GUIDEPOSTS: Homing of Salmon—Arthur D. Hasler—Univ. of Wis. Press, 155 p., illus., \$6. Presents a chronological account of studies of fish migration in both stream and open-water phase, with emphasis on the Pacific salmon's remarkable homing ability, laboratory and field tests of the odor hypothesis are described in detail, as well as sun-compass orientation of fish.

• Science News, 90:44 July 16, 1966



GEMS FROM THE MOON! TEKTITES

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OCEANOGRAPHY

Minerals for Humanity In Ocean Storehouses

► THE 330 MILLION cubic miles of ocean around us hold valuable materials in solution—common salt, magnesium, bromine, potash, soda and other natural elements.

Only four of these elements are commercially extracted to any great extent at the present time—sodium and chlorine (in the form of common salt), magnesium and bromine, Dr. John L. Mero, president of Ocean Resources, Inc., La Jolla, Calif., said.

About 3.5% of seawater consists of elements in solution, Dr. Mero told a conference on Exploiting the Ocean, sponsored by the Marine Technology Society.

Thus each cubic mile of seawater, weighing about 4.7 billion tons, holds about 166 million tons of solids.

Certain bodies of water are richer in minerals than others. Recently a body of water was found in the Red Sea that contains from 1,000 to 50,000 times as much of such elements as iron, copper, manganese and lead as does normal seawater. This and other areas such as the Mediterranean Sea could be considered as mines of minerals, much as certain land areas of the earth's crust contain more deposits of minerals than others.

Minerals can be found in other areas of the sea. Gold, platinum, diamonds, magnetite and calcium carbonate can be found along marine beaches. On the continental shelves that stretch into the sea are deposits of phosphorite, glauconite and barium sulfate nodules. Oil, gas, sulfur, salt, coal, iron ore and possibly other mineral deposits lie in veins along the sub-sea floor rocks.

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