

Books of the Week

For the editorial information of our readers, books received for review are listed. For convenient purchase of any U. S. book in print, send a remittance to cover retail price (postage will be paid) to Book Department, Science Service, 1719 N Street, N.W., Washington 6, D. C.

AIR FORCE SCIENTIFIC RESEARCH BIBLIOGRAPHY, 1950-1956—G. Vernon Hooker and others—*AFOSR (GPO)*, 1150 p., illus., \$6.75. Brings together abstracts of all publications produced during six years of research supported by the Air Force Office of Scientific Research.

APPLIED ELASTICITY—John Prescott—*Dover*, 666 p., diagrams, paper, \$2.95. Reprint of 1924 edition, develops elasticity from theoretical principles, oriented toward practical problems faced by the engineer.

THE BIOLOGY OF THE HYDRA AND OF OTHER COELENTERATES, 1961—Howard M. Lenhoff and W. Farnsworth Loomis, Eds.—*Univ. of Miami Press*, 467 p., illus., \$4.50. Current research presented at symposium on the Physiology and Ultrastructure of Hydra, held at Coral Gables, Fla.

COMPUTERS: Key to Total Systems Control—A. B. Shafritz and others—*AFIPS (Macmillan)*, 380 p., illus., \$12. Proceedings of the 1961 Eastern Joint Computer Conference, covering system simulation, current status of programming, language standardization, equipment, communication systems, programming and applications.

CRUSADE FOR WILDLIFE: Highlights in Conservation Progress—James B. Trefethen—*Stackpole*, 377 p., illus. by Carl Rungius and Bob Hines, \$7.50. Comprehensive account of the evolution of the conservation idea and its achievements, based on material from the archives of the Boone and Crockett Club.

DESIGN OF REGIONAL ACCOUNTS: Papers presented at Conference on Regional Accounts, 1960—Werner Hochwald, Ed.—*Johns Hopkins Press*, 281 p., \$6. Pioneer investigations of a group of economists into ways and means of organizing appropriate data to serve as a frame-

work for regional analysis of urban development problems.

ELECTRONICS: A Bibliographical Guide—C. K. Moore and K. J. Spencer—*Macmillan*, 411 p., \$15. Describes and evaluates 2,000 books and periodicals in 68 separate areas in the field of electronics, foreign titles translated into English, author and subject index.

AN ELEMENTARY TREATISE ON ELLIPTIC FUNCTIONS—Arthur Cayley—*Dover*, 386 p., paper, \$2. Unabridged reprint of second edition published in 1895.

FLUID MECHANICS FOR HYDRAULIC ENGINEERS—Hunter Rouse—*Dover*, 422 p., illus., paper, \$2.25. Unabridged reprint of 1938 edition.

GREEK SCIENCE: Its Meaning for Us—Benjamin Farrington—*Penguin Bks*, 320 p., paper, \$1.45. Describes the various phases of the development of science among the Greeks, from about 600 B.C. to Ptolemy and Galen in the second century A.D.

HIGH SCHOOL PUPIL PROGRAMS: A Preliminary Report—Edith S. Greer and Richard M. Harbeck—*OE (GPO)*, 31 p., paper, 20¢. A study comparing pupil ability and academic credit, program patterns of academic work.

HIGHER GEOMETRY: An Introduction to Advanced Methods in Analytic Geometry—Fredrick S. Woods—*Dover*, 423 p., paper, \$2. Thorough presentation of the general concepts and methods of advanced algebraic geometry, reprint of 1922 edition.

AN INTRODUCTION TO CLINICAL ELECTROENCEPHALOGRAPHY—Robert R. Hughes—*Wright & Brown (Williams & Wilkins)*, 118 p., illus., \$7. Concise summary of the main features of E.E.G., explaining E.E.G. changes in epilepsy, in brain damage, psychiatric conditions and endocrine abnormalities.

AN INTRODUCTION TO THE THEORY OF CANONICAL MATRICES—H. W. Turnbull and A. C. Aitken—*Dover*, 200 p., paper, \$1.55. Mathematical treatise on the various ways in which matrices of finite order can be reduced to canonical form under different types of transformation. Reprint of 3rd (1952) edition.

THE LONG-RANGE DEMAND FOR SCIENTIFIC AND TECHNICAL PERSONNEL: A Methodological Study—Bureau of Labor Statistics—*NSF (GPO)*, 70 p., paper, 50¢. Projections of scientific and engineering employment to 1970.

MATHEMATICAL METHODS FOR SCIENTISTS AND ENGINEERS—Lloyd P. Smith—*Dover*, 453 p., diagrams, paper, \$2. Unabridged republication of first (1953) edition.

THE MEDICAL ANNUAL: A Year Book of Treatment and Practitioners' Index, 1961—*Wright & Sons (Williams & Wilkins)*, 79th ed., 610 p., illus., \$8. A documented practical summary of recent progress in medical and surgical practice.

MEMBRANE TRANSPORT AND METABOLISM: Proceedings of Symposium held in Prague, 1960

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A. Kleinzeller and A. Kotyk, Eds.—*Academic Press*, 608 p., diagrams, \$20. Papers and discussion on general aspects of transport phenomena, in particular on the transport of ions and water, sugars, amino acids and amines across cellular and biological membranes; indexed.

MEMORY: Facts and Fallacies—Ian M. L. Hunter—*Penguin Bks*, 185 p., paper, 95¢. Psychologist reports on the processes of remembering and forgetting as established by experiments.

MODERN FOREIGN LANGUAGES IN HIGH SCHOOL: The Language Laboratory—Joseph C. Hutchinson—*OE (GPO)*, 85 p., illus. paper, 35¢. Discusses laboratory facilities, equipment functions, and operating and teaching techniques.

MODERN THEORIES OF INTEGRATION—H. Kestelman—*Dover*, 2nd rev. ed., 309 p., paper, \$2. New edition contains chapter on Riemann-Stieltjes integration, and a supplementary section of 186 exercises.

NEW MATHEMATICAL LIBRARY, Vol. 2: What Is Calculus About?—W. W. Sawyer—*Random House (Library Publishers)*, 118 p., diagrams, \$2.95. Library bound edition of supplementary text series published under the auspices of the School Mathematics Study Group.

ORE MICROSCOPY—Eugene N. Cameron—*Wiley*, 293 p., illus., \$10.50. Presents theory and technique of microscope investigation of ore minerals, ores, and mill products produced by beneficiation of ores.

PROGRESS IN HIGH POLYMERS, Vol. 1—J. C. Robb and F. W. Peaker, Eds.—*Academic Press*, 340 p., illus., \$12. Contains critical reviews by specialists of the theory of high polymer solutions, application of ebulliometry, fractionation of high polymers, and stereospecific polymerization.

THE PYRAMIDS—Ahmed Fakhry—*Univ. of Chicago Press*, 260 p., illus., \$5.95. Egyptian historian's scientific study and guide book to the pyramids, generously illustrated.

THE PYRAMIDS OF EGYPT—I. E. S. Edwards—*Penguin Bks*, rev. ed., 320 p., illus. by J. C. Rose, photographs, paper, \$1.45. British Egyptologist's detailed description of the principal features of the outstanding examples of pyramids built over a period of 1,000 years, incorporates recent findings in text and bibliography.

RAINFALL FREQUENCY ATLAS OF THE UNITED STATES for Durations from 30 Minutes to 24 Hours and Return Periods from 1 to 100 Years—David M. Hershfield—*Weather Bureau (GPO)*, 115 p., maps, 14" x 23", paper, \$1.75.

SCIENCE AND TECHNOLOGY STOCKS: A Guide for Investors—Grant Jeffery—*World Pub. Co.*, 352 p., paper, \$1.95. Reviews technological advances from the stock market point of view, lists 1,000 companies, glossary, index.

THE TEACHING OF CHEMISTRY—N. F. Newbury—*Philosophical Lib.*, 2nd ed., 294 p., illus., \$6. Intended for the use of science teachers in British secondary schools, treats chemistry as a separate science on the pre-university level.

THERE'S ADVENTURE IN AUTOMOBILES—Julian May—*Hawthorn Bks*, 159 p., illus. by Richard Potts and William Dichtl, \$2.95. Fictionalized story of boys learning about the mechanics of cars.

TYPES OF TESTS IN PROJECT TALENT: Standardized Aptitude and Achievement Tests—John T. Dailey and Marion F. Shaycoft—*OE (GPO)*, 62 p., paper, 25¢. Brief outline of history, development and use of standardized tests given in schools.

WILDERNESS: America's Living Heritage—David Brower, Ed.—*Sierra Club*, 220 p., photographs, \$5.75. Beautifully presented proceedings of the Seventh Biennial Wilderness Conference held in spring, 1961, assessing the meaning of wilderness to the nation.

• Science News Letter, 80:434 December 30, 1961

For Math Buffs—

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