

• 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, priced at 95¢ or over, 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. Request free publications direct from publisher, not from Science Service.

AERONAUTICAL DICTIONARY—Frank Davis Adams—*NASA (GPO)*, 206 p., illus., \$1.75. Defines about 4,000 aeronautical terms, not including space technology.

AMMONIA: Manufacture and Uses—A. J. Harding—*Oxford Univ. Press*, 41 p., illus., \$1.05. Describes modern industrial conditions.

AVAILABLE ENERGY AND THE SECOND LAW ANALYSIS—Edward A. Bruges—*Academic*, 124 p., \$5.50. Thermodynamic analysis based on the concept of available energy.

THE CONTROL OF GROWTH AND FORM: A study of the Epidermal Cell in an Insect—V. B. Wigglesworth—*Cornell Univ. Press*, 140 p., illus., \$3. Six essays presenting the principles of physiological control of growth and form in animals.

A DIDEROT PICTORIAL ENCYCLOPEDIA OF TRADES AND INDUSTRY: Manufacturing and the Technical Arts in Plates Selected from "L'Encyclopedie ou Dictionnaire Raisonne des Sciences, des Arts et des Metiers, 2 Vols.—Denis Diderot, introd. by Charles Coulston Gillespie, Ed.—*Dover*, 920 p., 485 plates, 9 x 12, \$10 each; two vol. boxed set \$18.50.

THE EDUCATION OF THE SCIENTIST IN A FREE SOCIETY—Edward Teller and others, introd. by A. Bernard Drought—*Marquette Univ., Press*, 88 p., paper, \$2.50. Conference papers commemorating the 50th anniversary of College of Engineering, 1959.

ELEMENTARY ANALYSIS: A Modern Approach—H. C. Trimble and Fred W. Lott, Jr.—*Prentice-Hall*, 621 p., \$6.95. Planned to prepare freshmen for a course in calculus.

EVERGREENS FOR EVERY STATE: How to Select and Grow Them Successfully in Your Locality—Katharine M-P. Cloud—*Chilton Co.*, 227 p., 82 photographs, climatic zone map, \$4.95.

FACULTY AND OTHER PROFESSIONAL STAFF IN INSTITUTIONS OF HIGHER EDUCATION: First Term 1957-58—Wayne E. Tolliver and Hazel C. Poole—*Off. of Educ. (GPO)*, 68 p., paper, 45¢.

FLORA OF ALASKA and Adjacent Parts of Canada—J. P. Anderson—*Iowa State Univ. Press*, 543 p., illus., \$8.50. Illustrated descriptive text of all vascular plants known to occur within the region.

GEORGE EASTMAN: Young Photographer—Joanne Landers Henry—*Bobbs*, 192 p., illus. by M. Rawson, \$1.95. Juvenile biography.

AN INTRODUCTION TO KANSAS ARCHEOLOGY—Waldo R. Wedel—*Smithsonian Inst. (GPO)*, 723 p., illus., paper, \$3. With description of the skeletal remains from Doniphan and Scott counties, Kansas, by T. D. Stewart.

MATERIALS AND TECHNIQUES FOR ELECTRON TUBES—Walter H. Kohl—*Reinhold*, 638 p., illus., \$16.50. Completely revised edition of "Materials Technology for Electron Tubes."

MINERALS OF NEW MEXICO—Stuart A. Northrop—*Univ. of N. Mex. Press*, rev. ed., 665 p., \$10. Reflects the great changes in the knowledge and economics of New Mexico's minerals since World War II.

PHYSICAL METALLURGY OF STRESS CORROSION FRACTURE: Symposium 1950-1959—Thor N. Rhodin, Ed.—*Interscience*, 394 p., illus., \$13. Metallurgical Society Conferences, Vol. 4.

PRE-ADOLESCENT: What Makes Them Tick?—Fritz Redl—*Child Study Assn.*, rev. ed., 26 p., paper, 25¢. Helpful suggestions for adults.

QUALITY REQUIREMENTS OF SUPER-DUTY STEELS: Proceedings of 1958 Conference—R. W. Lindsay, Ed.—*Interscience*, 309 p., illus., \$8.50. Stainless steels, high-strength alloy and carbon steels, and high-and-low-temperature steels.

RADIOISOTOPE TECHNIQUES—Ralph T. Overman and Herbert M. Clark—*McGraw*, 476 p., illus., \$10. Laboratory textbook dealing with the principles of handling and measurement techniques.

REACTIVE METALS: Metallurgical Society Conference, Vol. 2—W. R. Clough, Ed.—*Inter-*

science, 610 p., illus., \$15. Includes also thorium, vanadium, columbium and molybdenum.

RECENT ADVANCES IN NEURO-PHYSIOLOGICAL RESEARCH—D. Ewen Cameron and Milton Greenblatt, Eds.—*Am Psychiatric Assn.*, Psychiatric Res. Reports 11, 136 p., illus., paper, \$2. Reports on research carried out in Canada.

RESEARCH HIGHLIGHTS OF THE NATIONAL BUREAU OF STANDARDS: Annual Report 1959—A. V. Astin, Dir.—*NBS (GPO)*, 169 p., illus., paper, 55¢. Wide range of research programs described.

SCIENCE AND THE HUMANITIES—Frederick Burkhardt—*Antioch Press*, 27 p., paper, 50¢. Antioch College Founders Day lecture.

SEMIMICRO EXPERIMENTS IN GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS—Nicholas D. Cheronis and Herman Stein—*De Graff*, 310 p., illus. by E. Gomberg, paper, \$4. Guide to experimentation, using small scale equipment.

THE STORY OF EARLY MAN: Human Evolution to the End of the Stone Age—H. E. L. Mellersh—*Viking*, 257 p., illus. by Sally Mellersh, \$4.50. Traces the long, slow evolution of man's early inheritance, in body, brain, sensitivity and environment.

THE STORY OF THE U.S. AIR FORCE ACADEMY—Lawrence C. Landis—*Rinehart*, 224 p., photographs, \$3.95. Creation and day-to-day operation of America's new service academy.

THE STORY OF YANKEE WHALING—Irwin Shapiro and Edouard A. Stackpole—*American Heritage (Golden Press)*, 153 p., illus., \$3.50. Colorful historical account of an adventurous industry.

STRESS WAVES AND SCABBING IN MATERIALS—Norman Davids and Sudhir Kumar—*Pa. State Univ.*, Eng. Res. Bull. B-79, 26 p., paper, \$1. Includes bibliography.

THEORY OF MECHANICAL VIBRATION—Kin N. Tong—*Wiley*, 348 p., \$9.75. Broad treatment of linear mechanical vibrations, using modern analytical concepts.

VENEREAL DISEASE: Old Plague, New Challenge—T. Lefoy Richman—*Public Affairs Committee*, Pamphlet 292, 20 p., illus., paper, 25¢. On the nature of the new hazard, its causes, and what is being done about it.

Science News Letter, February 13, 1960

**JUST
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