

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.

ADVANCES IN INORGANIC CHEMISTRY AND RADIOCHEMISTRY, VOL. IV—H. J. Emeleus and A. G. Sharpe, Eds.—*Academic Press*, 344 p., \$11. On condensed phosphates and arsenates, stereo-chemistry of nickel, palladium and platinum, the chemistry of polonium, and on oxide melts.

HEROES OF POLAR EXPLORATION—Editors of *Horizon Magazine*, Ralph K. Andrist with Rear Admiral George J. Dufek — *Am. Heritage (Meredit)*, 154 p., illus., \$3.95. Well illustrated story of Arctic and Antarctic expeditions, for young people.

HOW BIG IS A FOOT?—Rolf Myller—*Atheneum*, unpagged, illus. by author, \$2.95. Children's book dedicated to "the wonderful metric system without whose absence in this country this book would not have been possible."

I'D RATHER BE FLYING: Instrument and Multi-Engine Flying for the Week-End Pilot—Frank Kingston Smith—*Random House*, 235 p., illus., \$4.95. A tale about private airplane instrument flying techniques.

LABORATORY MANUAL OF HUMAN ANATOMY AND PHYSIOLOGY—Sigmund Grollman—*Burgess*, 2nd ed., 188 p., illus., paper, \$4.25. Purpose of the manual is to set forth the close correlation between morphology and physiology.

MECHANICAL PROPERTIES OF POLYMERS—Lawrence E. Nielsen—*Reinhold*, 274 p., \$11. Reviews a wide variety of mechanical properties of high polymers from both the theoretical and experimental viewpoints.

THE MEDICAL ANNUAL: A Year Book of Treatment and Practitioners' Index—R. Bodley Scott and R. Milnes Walker, Eds.—*Wright, John (William & Wilkins)*, 18th ed., 586 p., illus., \$8.75. British publication.

NUMERICAL MATHEMATICAL ANALYSIS—James B. Scarborough—*Johns Hopkins Press*, 5th ed., 594 p., \$7. Sets forth clearly and systematically the most important principles, methods and processes used for obtaining numerical results, and describes means for estimating the accuracy of these results.

OUR CROWDED PLANET: Essays on the Pressures of Population—Fairfield Osborn, Ed.—*Doubleday*, 240 p., \$3.95. Collection of new essays bringing into focus the problem of over-

population as an individual, national and international concern.

PHILOSOPHY OF TEACHING—E. J. Ortman—*Philosophical Lib.*, 398 p., \$4.75. Attempts to apply the fundamental principles of philosophy to the tasks of teaching and the administration of schools.

PIONEER GERM FIGHTERS—Navin Sullivan—*Atheneum*, 165 p., illus. by Eric Fraser, \$3.75. Explains to young readers how such men as Jenner, Koch, Stanley and Salk actually worked.

PLANTS THAT MOVE—Millicent E. Selsam—*Morrow*, 128 p., illus. by Fred F. Scherer, \$2.75. Shows children how leaves, flowers and vines open, close, reach and twine.

POINT HOPE: An Eskimo Village in Transition—James W. Vanstone—*Univ. of Wash. Press*, 177 p., illus., \$5.25. Study of cultural change through the descriptive analysis of a small Eskimo community.

PROCEEDINGS OF THE SYMPOSIUM ON NUCLEAR INSTRUMENTS, Harwell, September 1961—J. B. Birks, Ed.—*Academic Press*, 251 p., illus., \$10. Contains papers on photoelectric devices, scintillation chambers, semiconductor detectors, and on the recording and analysis of complex nuclear data.

PROGRESS IN DIELECTRICS, Vol. 4—J. B. Birks and J. Hart, Eds.—*Academic Press*, 309 p., illus., \$12. On research in microwave spectroscopy of gases, ferroelectricity, theory of gas breakdown, and static electrification.

PSYCHOLOGICAL PRACTICES WITH THE PHYSICALLY DISABLED—James F. Garrett and Edna S. Levine, Eds.—*Columbia Univ. Press*, 463 p., illus., \$8.75. On the major influences, problems and procedures of psychological practice in dealing with such disabilities as amputation, hemiplegia, facial disfigurement and visual disability.

QUADRENNIAL REPORT OF THE DIRECTOR, 1958-1961—Abraham Horwitz, Dir.—*Pan Am. Health Organization, Pan Am. Sanitary Bur., Reg. Office of WHO*, 89 p., paper, single copies free upon request direct to publisher, 1501 New Hampshire Ave., NW, Washington 6, D. C.

THE QUEST OF CAPTAIN COOK—Millicent E. Selsam—*Doubleday*, 128 p., illus. by Lee J. Ames, \$2.75. Takes young readers into the world of Pacific Ocean exploration 200 years ago.

REFERENCE BOOKS: A Brief Guide for Students and Other Users of the Library—Mary Neil Barton with Marion V. Bell—*Enoch Pratt Free Lib.*, 5th ed., 135 p., illus., paper, \$1.25. Annotated list of most frequently used general and special reference sources.

RESEARCH ON SPECTROSCOPY AND LUMINESCENCE, Parts 1-4—L. A. Vainshtein and others, transl. from Russian — *Consultants*, 218 p., paper, \$40. Transactions of the P.N. Lebedev Physics Institute, Vol. XV, covering calculation of wave functions and oscillator strengths of complex atoms, spectral excitation in a spark discharge, broadening and shift of spectra lines

in the plasma of a gaseous discharge, and radio-luminescence yield of organic substances.

ROBBER FLIES OF THE WORLD: The Genera of the Family Asilidae, Parts 1 and 2—Frank M. Hull—*Smithsonian Inst., U.S. National Museum (GPO)*, 907 p., illus., \$10.25. Integrated review of one of the most abundant families of present-day insects, based on study of museum collections in the United States, Europe and Australia.

RUSSIAN-ENGLISH MATHEMATICAL DICTIONARY: Words and Phrases in Pure and Applied Mathematics with Roots and Accents, Arranged for Easy Reference—L. M. Milne-Thomson—*Univ. of Wis. Press*, 191 p., \$6.

SCIENCE AND RELIGION—Paul Chauchard, transl. from French by S. J. Tester—*Hawthorn Bks*, 156 p., \$3.50. A Catholic point of view.

SCIENCE SINCE BABYLON—Derek J. de Solla Price—*Yale Univ. Press*, 149 p., paper, \$1.45. Reprint (1961).

A SHORT HISTORY OF ASTRONOMY: From Earliest Times Through the Nineteenth Century—Arthur Berry—*Dover*, 440 p., illus., paper, \$2. Unabridged republication with new portraits, first published in 1898.

SILENT VISITOR—Theodore Brauner—*Atheneum*, 57 p., illus. by author, \$3. About bats observed at close range.

SOCIETY, CULTURE AND DRINKING PATTERNS—David J. Pittman and Charles R. Snyder, Eds.—*Wiley*, 616 p., \$9.75. Systematically arranged selection of current social-science research on drinking patterns, normal and pathological.

SOLAR ACTIVITY AND THE IONOSPHERE: For Radio Communications Specialists—N. Ya. Bugoslavskaya, transl. from Russian by G. O. Harding—*Pergamon*, 39 p., illus., \$2.50. On the composition of solar radiation, and the connection between geomagnetic-ionospheric storms and the radiation from active regions of the sun.

SULFUR BONDING—Charles C. Price and Shigeru Oae—*Ronald*, 208 p., \$8. Reviews the chemical and physical properties of sulfides, sulfoxides, sulfones and sulfonium salts, interpreting the facts in terms of the concepts of bonding.

THIS IS LIFE: Essays in Modern Biology—Willis H. Johnson and William C. Steere—*Holt*, 354 p., illus., paper, \$3.95. Treats particular aspects of modern biology, such as photosynthesis, reproduction and heredity of viruses and of bacteria, plant morphogenesis, on the level of the serious college or advanced high school student.

TOPOLOGY: An International Journal of Mathematics, Vol. 1, January-March 1962—J. H. C. Whitehead, founder; M. F. Atiyah and others, Eds.—*Pergamon*, 80 p., paper, quarterly, \$30 annually for libraries and organizations, \$10 for individuals.

TOTAL REHABILITATION OF EPILEPTICS: Gateway to Employment—George N. Wright, Frederic A. Gibbs and Shirley Motter Linde, Eds.—*Off. of Vocational Rehabilitation, HEW (GPO)*, 207 p., paper, \$1.25. Conference papers and group discussions.

A TREATISE ON PROBABILITY—John Maynard Keynes, introd. by Norwood Russell Hanson—*Harper*, 466 p., paper, \$2.45. Reprint, originally published in 1921.

TUNISIA: From Carthage to Tomorrow—Claude Roy and Paul Sebag—*Orion Press*, 163 p., photographs by Inge Morath, Andre Martin and Marc Ribaud, \$12.50. Beautiful pictorial record of past and present with comments.

WHALER'S EYE—Christopher Ash—*Macmillan*, 245 p., photographs by author, \$7.50. Experiencing modern whaling through the eyes of a professional whaling chemist who is also an unusually fine photographer.

• Science News Letter, 82:148 September 1, 1962

SLIDE RULES

America's Finest and most Complete line of Slide Rules for Beginners, High School Students, College Engineering Students and Professional Engineers. Wholesale Prices. You save 30 to 50%. Postcard with your name and address will bring our latest Catalog. Write today to,

Lewis A. Crawford & Sons
BOX 6380 JOANNA, S. C.

SELF-DEFENSE Complete

by Pat Butler. Methods and techniques of self-protection clearly and simply explained by a noted expert on judo—making use of features of judo, karate, atemi, la savate, and other practical defenses (kicks, blows, arm locks, etc.). Special chapters on self-defense for women and girls and how to ward off an armed attack. Fully illustrated with photographs. ORDER NOW!
\$3.95 Postfree • 10-Day Money-Back Guarantee
EMERSON BOOKS, Inc., Dept. 493-M
251 West 19 Street, New York 11

FREE CATALOGUES OF SCIENCE BOOKS

State your interest! Math, physics, history of science, general science, biology, social sciences, earth sciences, chemistry, language, art, games. We publish over 100 books per year, quality production priced for your budget. Dept. SNL, Dover, 180 Varlek St., N.Y. 14, N.Y.