## Books of the Week

Listing is for readers' information, not advertising. For convenient purchase of any book listed or any U.S. book in print, remit retail price (we pay postage) plus 25¢ handling charge if price is less than \$2 to Book Department, Science Service. 1719 N St., N.W., Washington, D. C. 20036.

ABC'S OF MODERN RADIO—Walter G. Salm—Sams, 128 p., illus., paper, \$1.95. Step-by-step explanation of how radio works, from transmitter to receiver.

ADVANCES IN PHARMACOLOGY, Vol. 2—Silvio Garattini and Parkhurst A. Shore, Eds.—Academic Press, 392 p., illus., \$12. Progress in research on drug toxicity, hormones and atherosclerosis, nitrogen mustards, and antimetabolites in cancer chemothers are

CELL-BOUND ANTIBODIES: Proceedings CELL-BOUND ANTIBODIES: Proceedings of NAS-NRC Conference, 1963—Bernard Amos and Hilary Koprowski, Eds.—Wistar Inst. Press, 135 p., \$4. Conference was sponsored by Committee on Tissue Transplantation of the Division of Medical Sciences of the National Academy of Sciences.

CLASSICS IN THE THEORY OF CHEMICAL COMBINATION—O. Theodor Benfey, Ed.—Dover, 191 p., illus., paper, \$1.85. Nine papers (1832-1874) representing the development of the valence concept in chemistry.

A DICTIONARY OF CLICHES—Eric Partridge Dutton, 259 p., paper, \$1.35. A compilation of well-worn phrases and their sources.

DIRECTORY OF ENGINEERING SOCIETIES
AND RELATED ORGANIZATIONS, 1963—Engineers Joint Council, 3rd rev. ed., 87 p., paper, \$2.
Up-to-date listing with general information of federations, national societies, regional bodies and interpolations organizations. tions, national societ national organizations

ELECTRICITY WITHOUT DYNAMOS: The Coming Revolution in Power Generation—John W. Gardner—Penguin, 158 p., diagrams, paper, 95¢. A research physicist explains the principles behind fuel cells, magnetohydrodynamic generation and thermionic converters, and discusses the advances needed for their economical use.

economical use.

THE GEOGRAPHY OF INTELLECT—Nathaniel
Weyl and Stefan T. Possony—Regnery, 299 p., \$7.95.
A study of human intelligence, its distribution, its
relation to climate, civilizations, social and religious
institutions, eugenics and other factors.

HEAT ALL AROUND US—Tillie S. Pine and Joseph Levine—Whittlesey House, 48 p., illus. by Bernice Myers, \$2.50. Helps children to become aware of the effects of heat in their environment.

HOW TO KNOW THE CACTI: Pictured Keys— E. Yale Dawson—Brown, Wm. C., 158 p., illus., spiral-bound, \$2.25. Keys for determining native U.S. cacti and many of the introduced species.

I WENT TO SEE THE ELEPHANT—Dwight J. Ingle—Vantage, 307 p., \$4.95. Endocrinologist's autobiography, telling about his research on cortisone, hormones and metabolism.

JAMBO: African Balloon Safari—Anthony Smith—Dutton, 272 p., 32 p. color photographs, \$6.50. The story of three men photographing African wildlife from a free-floating balloon.

MAGNETIC RECORDING FOR THE HOBBYIST Arthur Zuckerman—Sams, 128 p., illus., paper, 2.50. A practical handbook for owners of tape recording equipment.

J. Zadde, rev. by Theodore A. Smits—Barnes & Noble, 144 p., illus., \$3.50; paper, \$1.25. Written for the astronomy student and the amateur star watcher. MAKING FRIENDS WITH THE STARS

astronomy student and the amateur star watcher.

MATTHEW FONTAINE MAURY: Scientist of the Sea—Frances Leigh Williams—Rutgers Univ. Press, 720 p., illus., \$10. Fully annotated biography of the U.S. naval officer whose wind and current charts revolutionized navigation.

MEDICAL CARE AND FAMILY SECURITY.
Norway, England, U.S.A.—Karl Evang, D. Stark Murray and Walter J. Lear—Prentice-Hall, 344 p., \$6.50. Three physicians analyze the contrasting systems of medical care in their respective countries.

THE MOON—Virgilio Brenna—Golden Press, 104 p., 100 photographs, illus., \$3.95. A close-up view of the moon's surface, with discussion of volcanoes and meteor craters on earth.

THE NATURAL PHILOSOPHER, Vol. I—Robert E. Bardley and others—Blaisdell Pub. Co., 155 p., \$2.95; paper, \$1.95. First of a new series on the history of physics and its influence on human thought and affairs contains thorough discussion of radiation control, and papers about Planck, Lavoisier and Publisherium. control, an Rutherford.

NEW HOPE FOR YOUR SKIN—Irwin I. Lubowe: chapter on Treatment of the Aging Skin by Plastic Surgery by Louis Joel Feit—Dutton, 298 p., photographs, \$4.95. Written by dermatologist in non-technical language.

THE NEW WORLD OF PHYSICS—Arthur March and Ira M. Freeman—Vintage Bks. (Random House), 195 p., diagrams, paper, \$1.45. Reprint (1962), deals with the conceptual structure of the classical and the new physics.

OF MEN AND MACHINES—Introd. by Arthur O. Lewis Jr., Ed.—Dutton, 349 p., paper, \$1.95. An anthology from the literature of writings about man's relation to machines.

THE ORIGIN OF ADAPTATIONS-Verne Grant —Columbia Univ. Press, 606 p., illus., \$12.50. Sets forth the causal theory of evolution as applied to diploid sexual organisms, reviewing and fitting together the contributions of research up to 1960.

OUR ANIMAL RESOURCES—Frederick L. Fitz-patrick—Holt, 128 p., illus, paper, \$1.28. About animals and their economic importance to man.

OURS IS THE EARTH: Appraising Natural Resources and Conservation—Allan A. Sollers—Holt, 128 p., illus., \$2.50; paper, \$1.28. Stresses the interdependence of water, soils, forests, rangelands, wildlife and miprals. wildlife and minerals.

OUTBOARD MOTOR SERVICE MANUAL—Charles G. Ewing, Ed.—Technical Publications, 2nd ed., 257 p., illus., paper, \$4.95. Includes operating principles and service fundamentals, and covers specific

principles and service fundamentals, and covers specific instructions for all leading makes and models.

PAPERS ON HUMAN GENETICS—Samuel H. Boyer IV, Ed.—Prentice-Hall, 305 p., illus., \$9. A collection of significant contributions which illustrate the various ways in which the study of human genetics has proceeded.

physical proceeded.

PHYSICAL PROPERTIES OF SOILS—R. E. Means and J. V. Parcher—Merrill, 464 p., diagrams, \$11.25. Attempts to develop a broad understanding of the nature of soils and the need for careful interpretation of experimentally determined properties.

PLANET EARTH—Gerald Ames and Rose Wyler—Golden Press, 105 p., illus, by Cornelius De Witt, \$3.95. A colorful book for young people about geophysical and planetary exploration.

THE PLANET MERCURY — Werner Sandner, transl. from German by Alex Helm—Macmillan, 94 p., illus. \$3.95. Summarizes observations of Mercury, surface features, the transits and other data.

A PROFESSOR'S STORY OF HYBRID CORN— Herbert Kendall Hayes—Burgess, 237 p., illus., \$6.50. Presents a researcher's view of the develop-ment of hybrid corn.

PROGRESS IN FAST NEUTRON PHYSICS— G. C. Phillips, J. B. Marion and J. R. Risser, Eds.— Chicago Univ. Press, 397 p., illus, \$8.50. Proceed-ings of the International Conference held at Rice University in February 1963, deals with neutron sources and spectra, inelastic and elastic scattering, and polarization studies.

PUSHUPS AND PINUPS: Diet, Exercise and Grooming for the Young Teens—Jeanne Bendick and Marcia O. Levin—McGraw, 127 p., illus. by J. Bendick, \$2.75.

THE QUIET CRISIS—Stewart L. Udall, introd. by John F. Kennedy—Holt, 209 p., photographs, \$5. The Secretary of the Interior presents the history of the relationship between U.S. land use and the changing environment.

A READER FOR PARENTS: A Selection of Creative Literature about Childhood—Selected by Child Study Association of America, Anna W. M. Wolf, Ed.—Norton, 462 p., \$8.95. Designed to add to the grownups' pleasure and understanding of children.

THE ROCKEFELLER FOUNDATION: Annual Report for 1962—J. George Harrar, Pres.—Rockefeller Foundation, 262 p., photographs, paper, single copies free upon request direct to Foundation, 11 W. 50th St., New York 20, N. Y. Review of current and operating programs, description of regional programs, grants and study awards.

THE SCIENCE OF ANIMAL BEHAVIOUR—

L. Broadhurst—Penguin, 145 p., photographs, aper, 95¢. Explains for the general reader the leaning and purpose of modern experiments with himal reactions.

SEASONAL FEASTS AND FESTIVALS—E. O. James—Barnes & Noble, 336 p., paper, \$1.75. Reprint (1961), investigates the origin, development, diffusion and significance of seasonal observances, from Paleolithic rituals to folk and calendar festivals.

SECONDARY PHLOEM IN THE PINACEAE—Lalit M. Srivastava—Univ. of Calif. Press, 72 p., 35 plates, paper, \$3. Monograph deals in detail with the general structure of the bark, and the cambial divisions and origin of phloem elements.

SEMIMICRO LABORATORY EXPERIMENTS AND PROJECTS: For a First Course in Modern Chemistry—Alfred B. Garrett—Ginn, 241 p., illus., paper, \$2.48. Laboratory manual with 47 experiments and eight optional projects.

SOCIALISM RE-EXAMINED—Norman Thomas—Norton, 280 p., \$4. Reviews half a century of the failures, adjustments and successes of socialism, and states the aims of democratic socialism in a changed world.

SOVIET MEN OF SCIENCE: Academicians and Corresponding Members of the Academy of Sciences of the USSR—John Turkevich, with J. Blanshei and others, Eds.—Van Nostrand, 441 p., \$12.50. Collection of brief professional biographies of more than 400 prominent Soviet physical and biological scientists.

SPECIAL LIBRARIES: How to Plan and Equip Them—Chester M. Lewis, Ed.—Special Libraries Assn., 117 p., paper, \$5.55. Information on the planning or remodeling of small, specialized libraries, with directory of manufacturers and annotated bibliography.

ography.

STATESMEN AND ADMIRALS: Quest for a Far Eastern Naval Policy—Thaddeus V. Tuleja—Norton, 256 p., \$5.95. Analyzes the interplay of Navy, Department of State and Congress in formulating U.S. naval power before World War II.

A STUDY OF LARGE SALINE WATER CON-VERSION PLANTS—Beehtel Corporation—Office of Saline Water (073), 147 p., 18 folded diagrams, paper, \$3. Evaluation and comparison of three demonstration plants, two using evaporative processes and one electrodialysis.

SUICIDE: A Sociological and Statistical Study— Louis I. Dublin—Ronald, 240 p., \$8. An analysis of the suicide problem, its causes, distribution in various population groups, environmental influence and emo-tional factors involved. Also deals with the history of suicide and the measures developed to prevent

SUN, STONES AND SILENCE—Robert Payne, introd. by Georges Duhamel—Simon & Schuster, 127 p., photographs by Dorothy Hales Gary, \$12.50. Beautiful photographic record of Egyptian monuments and architecture

TV HOME-CALL SERVICE GUIDE—Howard W. Sams Engineering Staff—Sams, 192 p., diagrams, paper, \$3.95. Designed to speed up troubleshooting, adjustments and repairs.

TAKE 100,000 VOLTS: How to Build Small Inexpensive Tesla Equipment of the Spark Oscillator Type—Bob Brown—Vow Laboratories, 20 p., illus., paper, \$1. Reprint.

TELSTAR: Communication Break-Through by Satellite—Louis Solomon—McGraw, 64 p., photographs, \$2.95. Updated edition includes the launching of Telstar II.

TESTING STUDENT ACHIEVEMENTS AND APTITUDES—J. Stanley Ahmann—Center for Applied Research in Education, 118 p., \$3.50. Discusses the ways in which psychological tests of achievement and aptitude can be used in education.

THE THEORY OF ATOMIC SPECTRA—E. U. Condon and G. H. Shortley—Cambridge Univ. Press, 441 p., paper, \$3.95. Reprint of book first published in 1935.

THEY SHALL NOT PASS—Hillel Black—Morrow, 342 p., \$4.95. Discusses critically the more than 100 million standarized I.Q., achievement and academic aptitude tests given to American children and adolescents each year.

THIS HIGH MAN: The Life of Robert H. Goddard—Milton Lehman, preface by Charles A. Lindbergh—Farrar, Straus, 430 p., photographs, diagrams, \$6.50. A fully researched biography of the American inventor of the modern rocket.

watchers of the modern rocket.

Watchers Of THE SKIES: An Informal History of Astronomy from Babylon to the Space Age—Willy Ley—Viking, 528 p., illus, \$8.50 Presents short chronological review of the contributions to the science of astronomy, the history of our knowledge of each of the planets, and historical treatment of special aspects of the galaxies.

aspects of the galaxies.

WAVE INTERACTION AND DYNAMIC NONLINEAR PHENOMENA IN PLASMAS—Anthony
J. Ferraro, Chmn.—Penn. State Univ. College of Engineering, 234 p., paper, \$5. Papers presented at
a conference, February 4-6, 1963.

WEBSTER'S DICTIONARY OF THE AMERICAN LANGUAGE—John Gage Allee, Ed.—Ottenheimer, 445 p., \$1. Defines more than 50,000 words
commonly used by Americans, from A-1 to Zucchini.

THE WORDERS OF WILL DIEFE. Notice Charged

THE WONDERS OF WILDLIFE: Nature Observed in 280 Pictures—Franz A. Roedelberger and Vera I. Groschoff, transl. by Mary Phillips and Peter White-head; introd. by Peter Scott—Viking, 232 p., illus., \$8.50. Printed in Switzerland, offers many rare glimpses of European wildlife.

THE WORLD OF ELEMENTARY PARTICLES

-Kenneth W. Ford.—Blaisdell, 246 p., illus., \$4.50; paper, \$2.95. Emphasizes the structure of theories and ideas, discusses conservation laws, photons and neutrinos, strange particles, interactions, and the new variance principles.

WORLD OF THE DESERT—Slater Brown—Bobbs, 224 p., \$4.50. About the world's deserts and the people that explored and inhabit them.

YOU AND YOUR BRAIN—Judith Groch, foreword by Clark H. Millikan—Harper, 302 p., illus by E. L. Sisley, \$3.95. A comprehensive treatment of the brain and nervous system, for young people, showing how the process of neural function unfolds.

YOUR INNER CHILD OF THE PAST—W. Hugh Missildine—Simon & Schuster, 317 p., \$5.95. In layman's language, psychiatrist shows how child-parent relationships and their results often persist and obstruct the emotional life of the adult.

• Science News Letter, 84:348 Nov. 30, 1963