

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.

ABYSS: The Deep Sea and the Creatures That Live in It—C. P. Idyll—Crowell, 396 p., photographs, drawings, \$6.95. About the deep sea environment, the life in it, and the future of oceanography.

AFRICA SOUTH OF THE SAHARA: A Select and Annotated Bibliography, 1958-1963—Kenneth M. Glazier—Hoover Institution, 65 p., paper, \$1.50. Describes briefly the content of each of the 150 entries, including quotes from book review evaluations.

ANGLERS' GUIDE TO SHARKS of the Northeastern United States, Maine to Chesapeake Bay—John G. Casey—Fish & Wildlife Serv. (GPO), 33 p., illus., paper, 25¢. Identification guide with key.

ANNALS OF THE INTERNATIONAL GEOPHYSICAL YEAR: Complete Table of Contents of Volumes I-XXXVI—International Council of Scientific Unions—Pergamon, 147 p., paper, single copies free upon request direct to publisher, 44-01 21st St., Long Island City, New York 11101.

THE BINARY STARS—Robert Grant Aitken—Dover, 309 p., illus., paper, \$2. Reprint of second edition (1935).

BIOLOGY OF THE ANTARCTIC SEAS—Milton O. Lee, Ed.—Am. Geophysical Union, 185 p., illus., \$10. Deals with a number of definitive marine studies, such as primary organic production under sea ice, respiratory metabolism and ecology of fishes, a catalogue and bibliography of benthic marine algae.

BOTANY: An Introduction to Plant Science—Wilfred W. Robbins, T. Elliot Weier and C. Ralph Stocking—Wiley, 3rd ed., 614 p., illus., \$8.95. Changes in this revised text have been influenced by the current emphasis on molecular biology and by the importance of continuing studies of the form and functioning of the plant as a whole.

CLIMATES OF THE PAST: An Introduction to Paleoclimatology—Martin Schwarzbach, transl. from German and edited by Richard O. Muir—Van Nostrand, 328 p., illus., \$10.75. This fully revised text provides a clear exposition of the earth's climatic history over the last billion years.

CURRENT DRUG HANDBOOK, 1964-66—Mary W. Falconer and H. Robert Patterson—Saunders, 160 p., \$3.50. Contains specific, technical data on approximately 1000 drugs in current use.

THE DIVERSITY OF MAN—Robin Clarke—Roy Pubs., 62 p., 28 plates, illus. by Elizabeth Winson, \$2.95. Short review of how anthropology and biology are contributing to a better understanding of man.

ECOLOGICAL GENETICS—E. B. Ford—Wiley, 335 p., 16 plates, \$7.75. Describes the experimental study of evolution and adaptation, carried out by a group of geneticists by means of combined field-work and laboratory genetics, with emphasis on zoology.

EINSTEIN'S THEORY OF RELATIVITY—Max Born, rev. with Gunther Leibfried and Walter Biem—Dover, 376 p., diagrams, paper, \$2. Revised and enlarged version of work first published in 1924.

EVERYMAN'S DICTIONARY OF DATES—Audrey Butler—Dutton, 454 p., \$5.50. Updated handy reference, planned to make useful dates available to the general reader, from detailed listing of calendar dates to definition of Zwinglianism.

EXPERIMENTAL METHODS IN GAS REACTIONS—Sir Harry Melville and B. G. Gowenlock—Macmillan, 2nd ed., 464 p., diagrams, \$17. An aid to the experimenter, describes the techniques of gas analysis, with the aim of stimulating him to adopt, modify and develop the methods described in the book.

EXPLORING THE OLYMPIC PENINSULA—Ruth Kirk—Univ. of Wash. Press, 121 p., 65 photographs, maps, paper, \$1.95. About the mountain wilderness and rugged seashores of the northwest corner of the United States.

HANDBOOK ON FLOWERING SHRUBS—Bernard Harkness, Ed.—Brooklyn Botanic Garden, 64 p., photographs, paper, \$1 direct to publisher, Brooklyn, New York 11225. Discusses best choice of shrubs for seasonal bloom, specific soils and locations in gardens in the different parts of the United States.

HEREDITY—David M. Bonner and Stanley E. Mills—Prentice-Hall, 2nd ed., 115 p., illus., \$3.95; paper, \$1.75. Up-to-date, concise treatment of genes, what they are, what they do, and what laws govern their transmission in microbes and man.

HYPNOSIS AND SUGGESTION—Paul Chaudard, transl. from French by Harold Hillman—Walker & Co., 121 p., \$3.50. Translation of book first published in 1950, includes new material.

IDENTIFICATION OF MATERIALS via Physical Properties, Chemical Tests and Microscopy—A. A. Benedetti-Pichler—Academic Press, 492 p., diagrams, \$18. Written for the practicing chemist, emphasizes the identification of materials as they actually occur

in nature and industry, and includes description of techniques, micro to submicro.

AN INTRODUCTION TO GENETICS—A. H. Sturtevant and G. W. Beadle—Dover, 391 p., illus., paper, \$2. Reprint (1939), presents a balanced account of the chromosome mechanics of higher organisms.

AN INTRODUCTION TO METALLIC CORROSION—Ulick R. Evans—St Martins, 2nd ed., 253 p., diagrams, \$6.75. Provides a general, authoritative and up-to-date survey of the subject, including a large amount of new material.

ISLAMIC CONTRIBUTIONS TO CIVILIZATION—Stanwood Cobb—Avalon Press, 84 p., \$2.50. About the historic contributions of the Arabic-Islamic culture and its impact on Europe.

THE LAND AND WILDLIFE OF SOUTH AMERICA—Marston Bates and Editors of LIFE—Time Book Div., 200 p., illus., \$3.95 direct to publisher, 540 N. Mich. Ave., Chicago 11, Ill. About the fauna, environments and geologic evolution of the continent, with 72 pages in full color.

LARGE STEERABLE RADIO ANTENNAS: Climatological and Aerodynamic Considerations—Edward Cohen, Ed.—N.Y. Acad. of Sciences, Annals, Vol. 116, Art. 1, 355 p., illus., paper, \$7. Papers are the result of the 1963 conference discussing new ideas among antenna users, designers and specialists in meteorology and aerodynamics.

"LIFE-MEANINGS" OF FUTURE TEACHERS: A Value Study—Lucy K. Ackerknecht—Philosophical Lib. 160 p., \$4. Expanded doctoral dissertation, with tabulation and analysis of values that govern a group of students of education.

THE LIFE OF THE GREEN PLANT—Arthur W. Galston—Prentice-Hall, 2nd ed., 118 p., illus., \$3.95; paper, \$1.75. Up-to-date account of the life processes of the green plant: metabolism, growth, differentiation and morphogenesis.

THE LIVING PLANT: An Introduction to Botany—Alan J. Brook—Aldine Pub. Co., 529 p., illus. by author, photographs, \$10. Presents botany as a scientific discipline at first-year university level.

THE LOST SHIPS: An Adventure in Undersea Archaeology—Peter Throckmorton—Little, 260 p., photographs, \$6.95. Describes the attempted raising of a three thousand year old trading vessel sunk off the Turkish coast in deep waters.

MILESTONES IN NUTRITION—Samuel A. Goldblith and Maynard A. Joslyn—Avi Pub. Co., 797 p., illus., \$14.25. An anthology of important writings related to the nutritional sciences of the past 150 years.

NEURAL THEORY AND MODELING: Proceedings of the 1962 Ojai Symposium—Richard F. Reiss, Ed.—Stanford Univ. Press, 427 p., illus., \$13.50. Symposium papers presenting various approaches to general and specific problems of the single neuron and of small, intermediate and large neural systems.

NO ROOM AT THE BOTTOM: Automation and the Reluctant Learner—Goodwin Watson, Ed.—NEA, 102 p., \$3; paper, \$2. Summary of papers, discussion and recommendations of project on the educational implications of automation.

THE ODYSSEY BOOK OF AMERICAN WILDFLOWERS—H. W. Rickett—Odyssey Press, 252 p., 306 color photographs by Farrell Grehan, \$12.95. Offers a handsome selection of some 300 wildflowers, with botanically precise descriptions, arranged by families.

PHILOSOPHICAL ASPECTS OF MODERN SCIENCE—C. E. M. Joad—Barnes & Noble, 272 p., paper, \$1.50. Reprint (1932), examines critically the thinking of Eddington, Jeans and Russell, maintaining the realists' firm distinction between the knower and what is known.

PHYSICS OF FAILURE IN ELECTRONICS, Vol. 2—M. F. Goldberg and Joseph Vaccaro, Eds.—RADCO (OTS), 559 p., illus., paper, \$7. This second volume in the Rome Air Development Center Series in Reliability discusses prediction techniques, device substructures and experimental techniques concerned with the study of electronic part failures in the U.S. space and defense program.

QUICK AND EASY MATCH—Isaac Asimov—Houghton, 183 p., \$3. Describes the why and how of shortcuts in addition, subtraction, multiplication, division, decimals and fractions.

THE REVOLT OF THE COLLEGE INTELLECTUAL—Everett Lee Hunt—Aldine Pub. Co., 172 p., \$5. An account of the changes that have taken place in the mores, attitudes and temperaments of students since certain of the so-called prestige colleges have been able to select their students from among the top intellectuals.

RIDDLES OF ASTRONOMY—Otto O. Binder, foreword by I. M. Levitt—Basic Bks., 210 p., illus.,

\$4.95. Presents in non-technical language 111 of the unsolved mysteries spaceflight and satellites might help to solve.

RUSSIAN-ENGLISH DICTIONARY of Chemistry and Chemical Technology—Mordecai Hoshel and Melanie L. Hoshel—Reinhold, 522 p., \$15. Reference source to Russian terms in chemistry and its allied fields—ceramics, coal, glassmaking, metallurgy, plastics and others.

SILENTLY, BY NIGHT—Russell Peterson—McGraw, 227 p., illus. by author, \$6.95. Informative book about bats, written by mammologist in an entertaining style.

SILICOSIS IN THE METAL MINING INDUSTRY: A Reevaluation, 1958-1961—Division of Occupational Health, Harry Heimann, Chief—PHS (GPO), 238 p., illus., paper, \$1.25. The findings of a three-year environmental and clinical study.

TALKS TO TEACHERS ON PSYCHOLOGY and to Students on Some of Life's Ideals—William James—Dover, 146 p., paper, \$1. Unabridged reprint (1899).

THE THEORY AND PRACTICE OF MEDICINE—Hippocrates, introd. by Emerson Crosby Kelly—Philosophical Lib., 374 p., illus., \$7.50. A medical classic approximately 2,500 years old.

THERMOELECTRIC PROPERTIES OF SEMI-CONDUCTORS: Proceedings of the First and Second Conferences on Thermoelectricity—V. A. Kutasov, Ed., transl. from Russian by A. Tybulewicz—Consultants, 109 p., illus., paper, \$17.50. Reviews physical fundamentals of new thermoelectric materials and includes experimental work on materials and research methods.

TOWARD BETTER UTILIZATION OF SCIENTIFIC AND ENGINEERING TALENT: A Program for Action—Committee on Utilization of Scientific and Engineering Manpower, James R. Killian, Jr., Chmn.—Nat. Acad. of Sciences, 153 p., paper, \$3. For story see SNL July 18, 1964, p. 34.

THE TRANSITION FROM CHILDHOOD TO ADOLESCENCE: Cross-Cultural Studies of Initiation Ceremonies, Legal Systems and Incest Taboos—Yehudi A. Cohen—Aldine Pub. Co., 254 p., \$5.75. Anthropologist's original approach makes use of the theory of boundary-maintaining systems and recent results of biological research on the innate need for privacy.

UNITED STATES GOVERNMENT ORGANIZATION MANUAL, 1964-65—Office of the Federal Register—GSA (GPO), 783 p., paper, \$1.75. Official organization handbook of the Federal Government, revised June 1, 1964.

THE UNIVERSAL ENCYCLOPEDIA OF MATHEMATICS—Foreword by James R. Newman—Simon & Schuster, 715 p., \$8.95. Compact reference work for the student and layman, arranged in alphabetical order of subjects, translated from German edition (1960) and thoroughly adapted to Anglo-American needs, covers mathematics from beginning high school through college.

WHO'S WHO IN SOVIET SCIENCE AND TECHNOLOGY—Ina Telberg, rev. by Antonia Dmitriev and V. G. Telberg—Telberg Book Corp. (N.Y.) 2nd ed., 301 p., \$16. Revised edition incorporates professional index and indicates name accents, revisions are based on the data in the *Annals of the Great Soviet Encyclopedia*.

THE WORLD OF PUSH AND PULL—Earl Ubell—Atheneum, 59 p., photographs by Arline Strong, \$4.25. Explains in pictures and words some of the rules of mechanics behind the movements a child sees and makes every day.

• Science News Letter, 86:76 August 1, 1964

Do You Know?

The average white male in the United States is four times as likely to commit *suicide* as he is to slay somebody else.

Light *filters* with color characteristics similar to the human eye have been developed to eliminate the need for human observers in color matching tests.

In the nation's *forests*, more than 160 pests annually devour one billion cubic feet of young growing stock and seven billion board feet of raw timber.

"Air breathing" *wings* that will absorb the air on the forward line of aircraft wings and thereby reduce friction and increase the speed of the plane are being tested

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