

# Books of the Week

For the editorial information of our readers, books received for review since last week's issue 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. Request free publications direct from publisher, not from Science Service.

**ANIMAL FRIENDS AND FOES**—Osmond P. Breland—*Harper*, 259 p., illus. with drawings by Leo Hershfield, \$3.95. Interesting and delightful facts about the animal kingdom.

**ANTENNAS**—Alexander Schure, Ed.—*Rider*, Electronics Technology Series. 79 p., illus., paper, \$1.50. Fundamental concepts of antenna theory for electronics students and technicians.

**AUTOMATION IN BUSINESS AND INDUSTRY**—Eugene M. Grabbe, Ed.—*Wiley*, 611 p., illus., \$10.00. Based on a series of lectures given at the University of California, this book includes discussion of the engineering and economic aspects of automation.

**AUTOMATION: ITS PURPOSE & FUTURE**—Magnus Pyke—*Philosophical Library*, 191 p., illus., \$10.00. Describing the working of automation in diverse fields from food shopping and preparation to guided missiles.

**BIOGRAPHICAL MEMOIRS, VOLUME XXX**—Karl Patterson Schmidt and others—*Columbia University Press* for National Academy of Sciences, 409 p., illus., \$5.00. Biographies, portraits and bibliographies of deceased members of the National Academy of Sciences.

**CARNEGIE INSTITUTION OF WASHINGTON YEAR BOOK 1955-1956: With Administrative Reports Through December 14, 1956**—Caryl P. Haskins, president—*Carnegie Institution*, 373 p., illus., paper \$1.00, cloth \$1.50. Reporting the research of the year by the Institution and its various departments.

**THE CHEMICAL HISTORY OF A CANDLE**—Michael Faraday, foreword by E. N. daC. Andrade and biographical introduction by Sir J. Arthur Thomson—*Crowell*, 158 p., illus., \$2.75. These lectures were presented as one of the famous children's Christmas lectures at the Royal Institution in London in 1860.

**EARLY CRETACEOUS MAMMALS AND THE EVOLUTION OF MAMMALIAN MOLAR TEETH**—Bryan Patterson—*Chicago Natural History Museum*, Fieldiana: Geology, Volume 13, Number 1, 105 p., illus., paper, \$2.25. Reporting evidence for the understanding of therian molar evolution.

**ELEMENTS OF COLOR IN PROFESSIONAL MOTION PICTURES**—Wilton R. Holm, Committee Chairman—*Society of Motion Picture and Television Engineers*, 104 p., illus., \$3.50. Beautiful color photographs illustrate this basic treatise on color photography problems including those of the selection of subjects and effect of makeup.

**ENERGY**—Sir Oliver Lodge—*Rider*, rev. ed., 54 p., illus., paper, \$1.25. The text has been modernized but an attempt has been made to retain the late author's fundamental presentation.

**EXPECTANT MOTHERHOOD**—Nicholson J. Eastman—*Little, Brown*, 3d rev. ed., 198 p., illus., \$1.75. A professor of obstetrics presents this little book to serve as a reference source between the important regular prenatal visits to the doctor.

**THE FUNDAMENTALS OF ELECTRIC LOG INTERPRETATION**—M. R. J. Wyllie—*Academic*, 2d rev. ed., 176 p., illus., \$4.50. Of particular interest to those concerned with drilling oil.

**HELP YOUR HUSBANDS STAY ALIVE!**—Hannah Lees—*Appleton-Century-Crofts*, 242 p., \$3.75. The author is not a scientist or physician, but a woman convinced that American men are kill-

ing themselves to produce a better world for American women to live in alone.

**HIGH-SPEED PHOTOGRAPHY: Proceedings of the Third International Congress**—R. B. Collins, Ed.—*Academic*, 417 p., illus., \$13.00. Reports are of new work not previously published.

**INVESTIGATION OF VIRUS DISEASES OF BRASSICA CROPS**—L. Broadbent—*Cambridge University Press*, 94 p., illus., \$3.00. An account of the many factors affecting the incidence of brassica virus diseases, causing serious losses of cauliflower and broccoli, in Great Britain.

**A MAN AGAINST INSANITY**—Paul de Kruif—*Harcourt, Brace*, 246 p., \$3.95. This new de Kruif book tells the story of a general practitioner's battle against mental illness, first in himself and then in the patients of a state hospital. The doctor believes that the answer lies in modern chemicals plus "tender loving care."

**MEN OF MEDICINE**—Katherine B. Shippen—*Viking*, 220 p., illus., with drawings by Anthony Ravielli, \$3.50. Telling of physicians and their work from the days of the priest physicians of ancient Sumeria to the discovery of penicillin.

**MINE ACID CONTROL**—S. A. Braley—*Mellon Institute*, 2 p., illus., paper, free upon request direct to publisher, 4400 Fifth Ave., Pittsburgh 13, Pa. The discharge of acid water from coal mines is the most serious of all water-pollution problems. Remedy, the author believes, is in more frequent discharge of the water.

**MODERN CHEMISTRY FOR THE ENGINEER AND SCIENTIST**—G. Ross Robertson, Ed.—*McGraw-Hill*, 442 p., illus., \$9.50. Lectures originally given as part of an extension course at the University of California. Each lecturer was selected as a recognized research scholar widely known as a contributor in his field.

**MODERN METHODS OF MICROSCOPY: A Series of Papers Reprinted from "Research"**—A. E. J. Vickers, Ed.—*Butterworth (Interscience)*, 114 p., illus., \$3.50 plus postage. Dealing with most aspects of microscopy, including microscopic interferometry, electron microscopy and the flying spot microscope.

**MY FAMILY AND OTHER ANIMALS**—Gerald Durrell—*Viking*, 273 p., \$3.95. The delightful story of a five-year sojourn of the naturalist-author and his family on the Greek island of Corfu.

**NEARCTIC WASPS OF THE SUBFAMILIES PEPINAE AND CEROPALINAE**—Henry Townes—*Govt. Printing Office*, U. S. National Museum Bulletin 209, 286 p., illus., paper, \$1.50. The species considered here occur in North America, north of Mexico.

**PHYSIOGRAPHIC DIAGRAM OF THE UNITED STATES**—A. K. Lobeck—*Geographical Press*, rev. ed., 8 p., maps, paper, 40 cents. The United States is here divided into 17 physiographic units, each of which is clearly described in its physical aspects.

**THE PHYSIOLOGY OF REPRODUCTION IN FUNGI**—Lilian E. Hawker—*Cambridge University Press*, Monographs in Experimental Biology No. 6, 128 p., \$3.00. A knowledge of the factors inducing reproduction may often solve the problem of control of parasitic and other harmful fungi.

**PLANT PROPAGATION IN PICTURES: How To Increase the Number of Plants in Your Home**

and Garden by Division, Grafting, Layering, Cuttings, Bulbs and Tubers, Sowing Seeds and Spores—Montague Free—*American Garden Guild and Doubleday*, 250 p., illus., \$4.95. Excellent photographs illustrate the procedures step by step.

**PRACTICAL APPLICATIONS OF ENGINEERING SOIL MAPS**—William W. Holman, Robert K. McCormack, James P. Minard and Alfreds R. Jumikis—*Rutgers University Press*, Engineering Research Bulletin Number 36, 114 p., illus., \$3.00. Highway planning, regional planning, agricultural land use and geology are some of the fields in which these maps can be used.

**PSYCHOLOGY YOU CAN USE**—Dorothy Hazeltine Yates—*Crowell*, 248 p., \$3.95. A psychologist presents the findings of this science in a form that you can use in daily life. She explains, for example, the kind of mental "set" that would help a motorist avoid accidents.

**THE RACE QUESTION IN MODERN SCIENCE**—Juan Comas, Otto Klineberg and others—*UNESCO and Whiteside (Morrow)*, 373 p., \$5.00. As weapon in its battle against racial prejudice, UNSECO asked leading anthropologists and psychologists to prepare these nine monographs on various aspects of race.

**THE UNIVERSE AND DR. EINSTEIN**—Lincoln Barnett with a foreword by Albert Einstein—*William Sloane Associates*, 2d rev. ed., 127 p., illus., \$3.50. This little book has been brought up to date with the inclusion of the most recent discoveries in atomic physics.

**THE WATER RELATIONS OF TERRESTRIAL ARTHROPODS**—E. B. Edney—*Cambridge University Press*, Cambridge Monographs in Experimental Biology No. 5, 109 p., illus., \$3.00. Discussing the physiology of water balance of these creatures, particularly insects.

**WAVE PROPAGATION**—Alexander Schure, Ed.—*Rider*, Electronic Technology Series 11, 56 p., illus., paper, \$1.25. Providing technicians, amateurs and students with understanding of the basic principles of wave propagation.

**WE CALL THEM CRIMINALS**—Ralph S. Banay—*Appleton-Century-Crofts*, 291 p., \$3.95. The prison, as now constituted, the author declares, must go. The philosophy from which it sprang is obsolete, its basic concept is erroneous, its physical plant an abomination, and its personnel are usually inadequately trained and politically controlled. The author is former director of the psychiatric clinic at Sing Sing.

**WHEN DOCTORS MEET REPORTERS: A Frank Discussion by Science Writers and Physicians of the Controversy Between the Press and the Medical Profession**—Compiled by Hillier Kriehbaum—*New York University Press* for the Josiah Macy Jr. Foundation, 119 p., paper, \$2.50. Relating the high points of discussion at a series of conferences sponsored by the Josiah Macy Jr. Foundation.

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A lightweight brick aggregate, light enough to float in water, lowers freight costs and may bring brick construction in competition with frame.

Crease-resistance that permits cotton wearing apparel to be laundered and worn without ironing can be imparted to the fabric by resin treatment.

The clothes moth grub is so small that it can pass through a hole 1/25th of an inch in diameter.