

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.

AFTER THE DOCTOR LEAVES: A Practical Guide to Approved Post-Medical Care and Treatment of Chronic Diseases for the Patient and His Family—Marguerite Clark, foreword by Howard A. Rusk—*Crown*, 310 p., \$3.75. During the second World War, much was discovered about the importance of patient after-care, called "rehabilitation." A science writer tells here what the patient and his family can do to advance recovery.

AMERICAN BIRD SONGS: Volume Two 33 1/3 RPM—P. P. Kellogg and A. A. Allen—*Cornell University Records*, two sides of 12-inch record, \$7.75. Duplicating in every respect an earlier 78 rpm release with the same title. Recordings of 51 bird voices caught in their native habitat.

THE ATOMIC SUBMARINE—John Lewellen—*Crowell*, 134 p., illus., \$2.50. A science writer is the author of this explanation of the operation of the Nautilus, atomic submarine that can cruise almost indefinitely under water.

BASIC BOTANY: An Introduction to the Science of Botany—Fred W. Emerson—*Blakiston*, 2d ed., 425 p., illus., \$5.00. The whole plant is treated as a functional unit; leaves, stems and roots are discussed in full detail, but only as integral parts of the plant.

CAMS: Design and Layout—Louis Kasper—*Chemical Publishing Co.*, 101 p., illus., \$3.50. A practical book intended for engineers, designers, and draftsmen.

CLASSIFICATION OF WHEAT VARIETIES GROWN IN THE UNITED STATES IN 1949—B. B. Bayles and J. Allen Clark — *Govt. Printing Office*, USDA Technical Bulletin No. 1083, 173 p., illus., paper, 70 cents. More than 200 varieties are grown in the United States. This classification system, intended as a practical system, uses only such characters as can be distinguished by the naked eye.

ELEMENTS OF MATHEMATICS FOR RADIO, TELEVISION AND ELECTRONICS — Bernhard Fischer and Herbert Jacobs—*Macmillan*, 569 p., illus., \$7.20. The practical application in engineering of simple mathematics.

EXPERIMENTS WITH ATOMICS — Nelson F. Beeler and Franklyn M. Branley — *Crowell*, 160 p., illus., \$2.50. You will not be able to make a toy atomic bomb at your kitchen sink with the help of this book, but you can produce illuminating models showing the structure of the atom and instruments used in its study.

FREEDOM AGAINST ITSELF—Clarence K. Streit—*Harper*, 316 p., illus., \$3.75. The tension that is preparing new disaster for us, the author declares, lies within us—it is our faulty grasp of freedom that is halting man's political and moral progress.

GEOGRAPHY OF NORTH AMERICA—George J. Miller, Almon E. Parkins and Bert Hudgins—*Wiley*, 3d ed., 664 p., illus., \$7.50. Discussing the white man's use of land and its natural resources. A text for the beginning student.

GOOD AND BAD SCHOOL PLANTS IN THE UNITED STATES AS REVEALED BY A NATIONWIDE SCHOOL FACILITIES SURVEY — James L. Taylor and James Woofter and others—*Govt. Printing Office*, Office of Education Special Publication No. 2, 77 p., illus., paper, 50 cents. A book of photographs showing contrasts in school buildings and equipment. Striking is the picture of a delapidated one-room school, typical of 52% of our elementary schools.

HOW TO HELP OLDER PEOPLE: A Guide For You and Your Family—Julietta K. Arthur—*Lippincott*, 500 p., \$4.95. Each day 1,000 more join the ranks of the "older group." This is intended as a practical guide to the handling of very real everyday problems in the families concerned.

AN INTRODUCTION TO CLIMATE — Glenn T. Trewartha—*McGraw-Hill*, 3d ed., 402 p., illus., \$7.00. Climate, the author points out, is probably the single most important element causing variations in use potentialities of different parts of the world. A textbook for college students.

THE KACHINA AND THE WHITE MAN: A Study of the Influences of White Culture on the Hopi Kachina Cult—Frederick J. Dockstader—*Cranbrook Institute of Science*, Bulletin 35, 185 p., illus., \$5.00. Every year in the time between Christmas and Fourth of July, the Hopi Indians of Northwestern Arizona put on between 500 and 1,000 religious festivals. These are not secret and white visitors are welcome.

THE MEANING OF SOCIAL MEDICINE — Iago Galdston — Published for the *Commonwealth Fund* by *Harvard University Press*, 137 p., \$2.75. Social medicine, the author believes, is not a utopian dream. It offers not only a logical but a most desirable resolution of the multiple problems that now beset society and medicine.

THE MICROTOMIST'S FORMULARY AND GUIDE—Peter Gray—*Blakiston*, 794 p., illus., \$10.50. Part I is a treatise on the art of making microscope slides from biological specimens. Part II is a classified list of the formulas and techniques used in that art.

NERVE IMPULSE: Transactions of the Fourth Conference March 4, 5, and 6, 1953, Princeton, N. J.—David Nachmansohn, Ed.—*Josiah Macy, Jr., Foundation*, 224 p., illus., \$4.00. An exchange of ideas among experts from various disciplines.

OPERATIONS RESEARCH, CHALLENGE TO MODERN MANAGEMENT—Gerhard R. Andlinger and others—*Harvard University Graduate School of Business Administration*, 120 p., paper \$10.00. Describing this relatively new technique for introducing objectivity and reducing guesswork in the executive's decision-making.

THE OUTLOOK FOR WOMEN AS MEDICAL X-

RAY TECHNICIANS — Women's Bureau — *Govt. Printing Office*, Medical Services Series, Bulletin No. 203-8 (1954) 53 p., illus., paper, 25 cents. Information for those planning a career.

PSYCHOLOGICAL TESTING — Anne Anastasi — *Macmillan*, 682 p., illus., \$6.75. A textbook, evolved in the classroom, intended to acquaint the student with the major types of tests in current use. No previous knowledge of statistics is presupposed, but those with statistical training will find here an opportunity to review what they have learned.

PSYCHOLOGY OF PERSONNEL IN BUSINESS AND INDUSTRY — Roger M. Bellows — *Prentice-Hall*, 2d ed., 467 p., illus., \$7.35. The aim of this book is to provide a link between personnel psychology research and its application in industry. It tells the business manager how he can use science to make the most of the human resources at his disposal.

PUBLIC EDUCATION AND A PRODUCTIVE SOCIETY: Horace Mann Lecture 1953—Maurice J. Thomas—*University of Pittsburgh Press*, 95 p., \$1.00.

RAPID DETECTION OF CATIONS—Gaston Charlot, Denise Bezier and Roland Gauguin translated by Ralph E. Oesper—*Chemical Publishing Co.*, 92 p., illus., \$3.00. Describing a method which can be applied to a single drop of solution.

THE SCIENCE OF CHEMISTRY — George W. Watt and Lewis F. Hatch—*McGraw-Hill*, 2d ed., 546 p., illus., \$5.50. The chapter on artificial radioactivity and atomic energy has been brought up-to-date, and other parts of this textbook for general course students have been completely revised. A section on nuclear fusion has been added.

A SEAL'S WORLD: An Account of the First Three Years in the Life of a Harp Seal—Frank Stuart—*McGraw-Hill*, 224 p., illus., \$4.00. An adventure story, not a zoological work, by an English novelist and playwright who has here attempted to give a true picture of a harp seal's life.

SMALL-SCALE INORGANIC QUALITATIVE ANALYSIS—J. T. Stock and P. Heath—*Chemical Publishing Co.*, 96 p., illus., \$2.50. The first American edition of a book originating in England. Practical aspects are emphasized throughout.

THEORY OF FUNCTIONS OF A COMPLEX VARIABLE: Vol. One—C. Caratheodory translated by F. Steinhardt—*Chelsea Publishing Co.*, 301 p., \$4.95. Although this book is primarily a textbook, it is believed the expert will also find in it much of interest.

WHEN PARENTS GROW OLD—Elizabeth Ogg — *Public Affairs Committee*, Public Affairs Pamphlet No. 208, 28 p., illus., paper, 25 cents. Calling attention to some of the problems and needs of the elderly that are too often overlooked, and giving advice on their handling.

WINTER-HARDY AZALEAS AND RHODODENDRONS: A Brief Account of These Plants and Their Culture in Zero Climates of the American East — Clement Gray Bowers — *Massachusetts Horticultural Society*, 112 p., illus., \$3.00. For amateur gardeners.

WOOL SHRINKAGE AND ITS PREVENTION — R. W. Moncrieff — *Chemical Publishing Co.*, 576 p., illus., \$10.50. Wool does not shrink when it is still on the sheep, nor do the moths harm it. This book is a technical discussion of shrinkage cause and prevention for manufacturers and for workers in the textile industry.

Science News Letter, June 5, 1954

Chicken eggs when laid have a temperature of about 105 degrees Fahrenheit.

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