

•First Glances at New Books

PHYSICS

THE ELECTRON MICROSCOPE — E. F. Burton and W. H. Kohl—*Reinhold*, 233 p., illus., \$3.85. Anyone who wishes to understand how an electron microscope works will find that he does not need even an elementary knowledge of optics or electricity if he reads this book, because it is all explained here in a delightfully simple and easy fashion. It would serve as an excellent textbook of those subjects.

Science News Letter, May 2, 1942

BACTERIOLOGY

INTIMATE BACTERIOLOGY, A Text and Laboratory Manual—Casper I. Nelson—*Burgess*, 166 leaves, illus., \$2.50. A combination of text and workbook for a first course in bacteriology, by a veteran researcher and teacher in the subject. Prof. Nelson's long service in an agricultural college insures that the practical, everyday phases of bacteriology receive ample attention. At the same time, however, medical bacteriology is by no means neglected; indeed, the laboratory outlines call for far more advanced experiments along this line than are commonly undertaken in undergraduate courses.

Science News Letter, May 2, 1942

ECONOMICS

REMAKING AMERICA—Jay Franklin—*Houghton Mifflin*, 287 p., \$3. One of the ablest of the advocates of the New Deal analyzes aims and efforts and appraises results, down to the nodal year-turn of 1941-42. As we pass from the purely civil phase to that of total national war effort, this perspective of our immediate background-decade becomes unexpectedly significant.

Science News Letter, May 2, 1942

ZOOLOGY

OFFICIAL ILLUSTRATED GUIDE BOOK TO THE PHILADELPHIA ZOOLOGICAL GARDEN—Roger Conant—*Zoological Society of Philadelphia*, 107 p., illus., 25c. Intended primarily for visitors to the Philadelphia Zoo, this pamphlet has interest for animal lovers everywhere because of its excellent illustrations and compact but informative text.

Science News Letter, May 2, 1942

ORNITHOLOGY

BRITISH BIRDS ON LAKE, RIVER AND STREAM—Phyllis Barclay-Smith—*Penguin*, 31 p., 16 colored pls., 50c. A few typical British birds, shown in very good color. Since several of the species are

identical with American birds, or have equivalent species in our avifauna, readers in this country will find it of interest.

Science News Letter, May 2, 1942

ZOOLOGY

MAN AND HIS CREATURES—H. C. Knapp-Fisher—*Dutton*, 236 p., illus., \$2. Animals that have been associated with man as companions, servants or hunters' quarry, described and pictured as they have appeared in literature and art from the dawn of history down to the present time. There is an astonishing wealth of historical information compacted into this moderate-sized book.

Science News Letter, May 2, 1942

BIOLOGY

BIOLOGY, A Revision of Biology for Beginners—Truman J. Moon and Paul B. Mann—*Holt*, 966 p., illus., \$2. New edition of a successful text for high schools.

Science News Letter, May 2, 1942

BOTANY

FIRST COURSE IN BOTANY—Raymond J. Pool and Arthur T. Evans—*Ginn*, 422 p., illus., \$1.68. Special attention is first given to function, through the physiological-ecological approach. With the student's interest thus captured, there follow sections on classification and form, and finally discussions of applied botany: forestry, plant breeding, plant diseases.

Science News Letter, May 2, 1942

CHEMISTRY

FLUORESCENT CHEMICALS AND THEIR APPLICATIONS—Jack De Ment—*Chemical Pub. Co.*, 240 p., illus., \$4.25. Three thousand fluorescent chemicals are here listed and described. Many of them are the author's own discoveries. Much older material has been corrected. But the chief aim of the book is the use of these chemicals in the industries, arts and sciences.

Science News Letter, May 2, 1942

MATHEMATICS

DIMENSION THEORY—Witold Hurewicz and Henry Wallman—*Princeton Univ. Press*, 165 p., \$3. Exactly what distinguishes a five-dimensional from a four-dimensional space according to the modern topological concept of dimension is told in this book. Inadequacies of the older theories are explained. Emphasis is laid on modern techniques of function spaces and mappings in spheres.

Science News Letter, May 2, 1942

NAVAL SCIENCE

FIGHTING SHIPS OF THE U. S. NAVY—Fletcher Pratt; illustrated by Jack Coggins—*Garden City Pub. Co.*, 26 p., illus., \$1. Spirited sketches in color of the principal types of naval vessels, not only actual fighting craft but auxiliaries of the "train", with supplementary thumbnail sketches in black-and-white at the bottom of each page, and brief but informative text.

Science News Letter, May 2, 1942

MATHEMATICS

ADVENTURING WITH MATHEMATICS—Ethel F. Huggard and C. Newton Stokes—*Winston*, 209 p., illus., 96c. A school arithmetic for grade 8A, written with the idea of inducing the child to believe that learning arithmetic is an exciting adventure.

Science News Letter, May 2, 1942

ENGINEERING

A SIMPLE GUIDE TO BLUEPRINT READING, A Text for Those Engaged in a Preliminary Study of Blueprint Reading—William N. Wright—*Craftsman Press*, Seattle, Wash., 336 p., illus., \$3. The purpose of this book is to help those who have to read blueprints and who are not necessarily draftsmen. It is not intended as a textbook for those who wish to become draftsmen. It is devoted mostly to the drafting methods of the Boeing Aircraft Company.

Science News Letter, May 2, 1942

ARCHAEOLOGY

AN ARCHAEOLOGICAL SURVEY OF PICKWICK BASIN IN THE ADJACENT PORTIONS OF THE STATES OF ALABAMA, MISSISSIPPI AND TENNESSEE—William S. Webb and David L. DeJarnette and others—*Govt. Print. Off.*, 536 p., 316 pl., \$2. See page 283.

Science News Letter, May 2, 1942

TECHNOLOGY

PLASTICS MOLD DESIGNING—Gordon B. Thayer—*American Industrial Pub.*, 64 p., illus., \$2.50, cloth; \$2., paper.

Science News Letter, May 2, 1942

GENERAL SCIENCE

BASIC ELEMENTARY SCIENCE—Sabra Miles Watkins—*Savoy Printing Co.*, 83 p., \$1.50. A compilation of lessons for teachers of science covering solar systems, earth, moon, tides, time, seasons and world weather.

Science News Letter, May 2, 1942