

First Glances at New Books

➤ REFLECTIONS of a physicist on some of the problems of philosophy make stimulating reading in *PHYSICS AND PHILOSOPHY* by Sir James Jeans (*Macmillan*, \$2.75). He explores the territory between physics and philosophy, opened up by the work of men like Planck, Rutherford and Einstein. The style of this lively discussion is as simple as his subject permits.

Science News Letter, March 20, 1943

➤ TODAY'S WAR demands a better knowledge of the ways of the air (which is weather) than most cadets possess when they come to training school. To facilitate instruction Lt. C. W. Barber, U.S.N.R., of the Aerographers' School at Lakehurst, has prepared a compact, practical text under the title, *WEATHER SCIENCE* (*Pitman Publ. Corp.*, \$2.50). It is worthy the consideration of any teacher who must now offer a course in beginning meteorology

Science News Letter, March 20, 1943

➤ TOM WINTRINGHAM, one of the most acute of contemporary English military writers, gives us in *THE STORY OF WEAPONS AND TACTICS*, a group of essays on the evolution of military weapons, and with it the evolution of tactics which they largely compelled. His subtitle, "From Troy to Stalingrad," gives us a picture of the scope of the volume, as well as of its up-to-dateness (*Houghton Mifflin*, \$2.25).

Science News Letter, March 20, 1943

➤ RECENT ADVANCES IN AMERICAN ARCHAEOLOGY is a rather prosy title hiding under its bushel some most interesting lights that illuminate new spots in this continent's remote past, all the way from Eskimo country to the Mayan area. The chapters consist of papers presented before the April, 1942, meeting of the American Philosophical Society by a number of leading workers. (*Am. Phil. Soc.*, \$1.)

Science News Letter, March 20, 1943

➤ MATH for the layman from simple arithmetic to complex algebra is clearly presented in *WARTIME REFRESHER IN MATHEMATICS* by Lt. W. C. Eddy, A. H. Brolly, Ensign E. S. Pulliam, E. C. Upton and G. W. Thomas (*Prentice-Hall*, \$1.40, text ed. \$1.05). From experience at the U. S. Naval Training School in Chicago, the authors keyed

their book to today's practical problems. Cues are included with problems to show proper methods of operation and detailed solutions eliminate bad work habits at the source.

Science News Letter, March 20, 1943

➤ COPPER, the red war metal mined in upper Michigan, created the first mining boom in the United States. This saga of a by-gone era is told in Angus Murdoch's *BOOM COPPER* (*Macmillan*, \$3). Although much of the copper range has not been fully explored even today, the author gives critical comment on why present demands have not revived the boom in the Michigan copper area.

Science News Letter, March 20, 1943

➤ AMERICA, becoming suddenly much more sea-conscious, begins to remember some of the long-dusty names of men who sailed her ships in her first period of sea greatness, a century and more ago. In *MASTER MARINER*, James B. Connolly (*Doubleday, Doran*, \$3) gives us the story of one of the pioneers of our East India trade (and a geographer and naturalist to boot) who was an early bearer of a well-known name: Amasa Delano.

Science News Letter, March 20, 1943

➤ A HANDBOOK of SUBSTITUTES by H. Bennett (*Chemical Publishing Co.*, \$4) contains a list of chemicals, metals, fibers and others products useful to the commercial producer in these days of shortages. A plan for proper choosing is included. For those with highly specialized needs, the book will serve as a starting point from which a specific solution can be "imagined."

Science News Letter, March 20, 1943

➤ CREATIVE genius of a country boy who rose to rule an industrial empire is portrayed in the biography of *GEORGE WESTINGHOUSE: FABULOUS INVENTOR* by H. Gordon Garbedian (*Dodd, Mead & Co.*, \$2.50). The industries he founded still turn out products ceaselessly, many now converted to war production.

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➤ SPIRITUALS are commonly thought of as documents of American Negro ethnology and psychology only. There is, however, a less known literature of religious folk music, stemming back to rural northern England, which was transplanted into the Colonies and which still has some survivals. George Pullen Johnson gives us a good collection of these songs in *DOWN EAST SPIRITUALS AND OTHERS* (*Augustin*, \$5.50).

Science News Letter, March 20, 1943

Just Off the Press

ANATOMY AND PHYSIOLOGY LABORATORY MANUAL AND STUDY GUIDE — Barry Griffith King and Helen Maria Roser — *Saunders*, 253 p., illus., \$2.75. 2d ed., revised.

A COURSE IN RADIO FUNDAMENTALS: Study Assignments, Experiments and Examination Questions based on *The Radio Amateur's Handbook*—George Grammer—*American Radio Relay League* — 104 p., illus., 50c. With the Handbook, this little booklet contains all you need for a home-study course in radio leading to the Amateur's License, stepping-stone to many important war jobs.

THE ECOLOGY OF THE ORTHOPTERA AND DERMAPTERA OF THE GEORGE RESERVE, MICHIGAN—Irving J. Cantrall—*Univ. of Michigan Press*, 182 p., 10 plates, 2 maps, \$1.50. (Miscellaneous Publications Museum of Zoology, University of Michigan, No. 54).

THE ELEMENTS OF AEROFOIL AND AIRSCREW THEORY—H. Glauert—*Macmillan, Cambridge Univ. Press*—228 p., illus., \$3.50.

FOOD CHEMISTRY AND COOKERY—Evelyn G.

Halliday and Isabel T. Noble — *Univ. of Chicago Press*—346 p., illus., \$3.

GEOLOGY AND MINERAL RESOURCES OF THE MARSEILLES, OTTAWA, AND STREATOR QUADRANGLES — H. B. Willman and J. Norman Payne—*State of Illinois*, 388 p., illus., 29 plates, \$1. (State of Illinois Division of the State Geological Survey Bulletin No. 66.)

MAPS AND SURVEY—Arthur R. Hinks—*Macmillan, Cambridge Univ. Press*, 301 p., illus., \$3.75. Fourth edition.

MEN AND WINGS—Assen Jordanoff—*Curtiss-Wright Corp.*—94 p., illus., 50c. A brief, interesting, and well-illustrated history of aviation.

PHYSICS & PHILOSOPHY—James Jeans—*Macmillan*, 222 p., \$2.75.

PRACTICAL MARINE DIESEL ENGINEERING —Louis R. Ford — *Simmons-Boardman*, 642 p., illus., \$6. 4th ed. This edition limited to American Diesels and engine types now being used in present day ships.

PRINCIPLES OF ELECTRICITY—Wendell H. Cornet and Daniel W. Fox—*McKnight & McKnight*, 255 p., illus., \$1.60. (Related Shop Science Series.) A semester course in preinduction training.