

# Books of the Week

For the editorial information of our readers, books received for review 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.

**ACCELERATORS: *Machines of Nuclear Physics***—Robert R. Wilson and Raphael Littauer—*Doubleday*, 196 p., illus., paper, 95¢. Clear, semi-technical explanation of the development of particle accelerators, from X-ray tube to huge synchrotrons.

**AMERICAN STRATEGY FOR THE NUCLEAR AGE**—Walter F. Hahn and John C. Neff, Eds.—*Doubleday*, 455 p., \$1.45. Prepared for the Institute for American Strategy by the Foreign Policy Research Institute of the University of Pennsylvania.

**APPROACHES TO THERMONUCLEAR POWER**—R. F. Saxe—*Temple (Simmons-Boardman)*, 65 p., illus., \$1.75. Monograph on fusion reactor, behavior of plasma at high temperatures, toroidal and mirror machines.

**THE AUSTRALIAN ENVIRONMENT**—G. W.

Leeper, Ed.—*C.S.I.R.O. (Cambridge Univ. Press)*, 3rd rev. ed., 151 p., illus, maps, \$6. Includes physical geography, climates, soils, water, vegetation, field crops and livestock.

**THE BARNES AND NOBLE WORLD ATLAS**—London Geographical Inst., Harold Fullard, Ed.—*Barnes & Noble*, 124 p., maps in color, paper, \$1.95. Quick-reference handbook, includes statistical information.

**BEAVER BUSINESS: An Almanac**—Glen Rounds—*Prentice-Hall*, 110 p., illus. by author, \$3. About the activities of beavers in streams and swamps.

**BOTANY: A Textbook for Colleges**—J. Ben Hill and others—*McGraw*, 3rd ed., 571 p., illus., \$8.95. Thoroughly revised edition.

**CERMETS**—J. R. Tinklepaugh and W. B. Crandall—*Reinhold*, 239 p., illus., \$9.50. Discusses physico-chemical aspects of cermets and describes properties, processing, testing and uses of both oxide- and carbide-base cermets.

**ECONOMIC ATLAS OF THE SOVIET UNION**—George Kish with Ian M. Matley and Betty Bellaire—*Univ. of Mich. Press*, 96 p., 65 maps, \$10. General maps on vegetation, air transport, population, and sixty regional maps of agriculture, minerals, industries, transportation and cities.

**ELEMENTARY MAP INTERPRETATION: Based on Maps of Nigeria, Ghana and Sierra Leone**—J. H. Jennings—*Cambridge Univ. Press*, 62 p., illus., paper, \$1.50. On the use of topographical maps.

**ENSURING MEDICAL CARE FOR THE AGED**—Mortimer Spiegelman—*Irwin for the Pension Research Council*, 280 p., \$6.25. Assembles and interprets data on the complex problems of providing medical care for the aged.

**EXPERIMENTAL PSYCHOLOGY: A Methodological Approach**—Frank J. McGuigan—*Prentice-Hall*, 314 p., \$6. Presents the more important

techniques used by experimental psychologists.

**FLIGHT FACTS FOR PRIVATE PILOTS**—Merrill E. Tower—*Aero Pubs.*, 214 p., illus., \$5; paper, \$3.50. Includes chapter on altitude instrument flying.

**FOREST AND SHADE TREE ENTOMOLOGY**—Roger F. Anderson—*Wiley*, 428 p., illus., \$8.50. General principles and detailed discussion of the more important forest insect species.

**FROM IMMIGRANT TO INVENTOR**—Michael Pupin, foreword by Freeman J. Dyson—*Scribner*, 396 p., paper, \$1.45. Reprint of autobiography by the inventor of electric transmission line.

**GEORGE WESTINGHOUSE**—Henry Thomas—*Putnam*, 128 p., illus. by Charles Beck, \$2.50. Biography for boys and girls.

**THE GIANT GOLDEN BOOK OF MATHEMATICS: Exploring the World of Numbers and Space**—Irving Adler, foreword by H. F. Fehr—*Golden Press*, 92 p., illus. by Lowell Hess, \$3.95. Shows in picture and word how man applied his ability to reason with numbers to different fields of knowledge.

**HANDBOOK OF MICROBIOLOGY**—Morris B. Jacobs and Maurice J. Gerstein—*Van Nostrand*, 322 p., \$8.50. Presents in tabular form data on characteristics of microorganisms, classification of bacteria and fungi, antibiotics and other reference tables.

**THE HEALTH HUCKSTERS**—Ralph Lee Smith—*Crowell*, 248 p., \$3.95. The documented story of how misleading advertising persuades Americans to spend more than one billion dollars a year for foods, drugs and cosmetics that have no real benefit.

**HYDRODYNAMICS OF OCEANS AND ATMOSPHERES**—Carl Eckart—*Pergamon*, 290 p., \$9. Approaches the problems of meteorology and oceanography through the systematic use of modern methods of mathematical physics.

**INDUSTRIAL ARCHITECTURE: An Analysis of International Building Practice**—James F. Munce—*Dodge, F. W.*, 232 p., illus., \$14.75. Short history of the factory, followed by survey of postwar U.S., German and British factory design; specific sections on structure, materials, automation, fire protection and other aspects.

**AN INTRODUCTION TO ANIMAL PHYSIOLOGY**—W. B. Yapp—*Oxford Univ. Press*, 2nd ed., 423 p., illus., \$4.95. Covers in an elementary way the whole range of animal, as distinct from human or general, physiology.

**THE QUEST OF ISAAC NEWTON**—Barbara and Myrick Land—*Garden City Bks.*, 56 p., illus. by Arthur Renshaw, \$2.50. Newton's scientific ideas in picture-book presentation.

**RADIOISOTOPES AND RADIATION IN THE LIFE SCIENCES: Second Inter-American Symposium on the Peaceful Application of Nuclear Energy,**

(Continued on p. 254)

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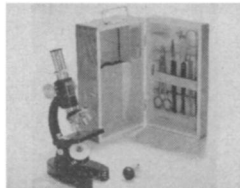
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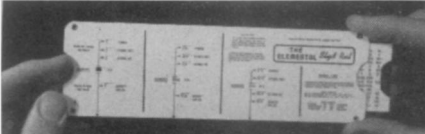
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## Books of the Week

(Continued from p. 252)

Buenos Aires, 1959—Helio Lopez, Chmn.—*Pan American Union*, 265 p., illus., paper, single copies free upon request direct to publisher, Div. of Science Development, Washington 6, D. C.

READINGS IN THE HISTORY OF AMERICAN AGRICULTURE—Wayne D. Rasmussen, Ed.—*Univ. of Ill. Press*, 340 p., illus., \$6.50. Chronologically arranged excerpts start with what a farm worker was expected to accomplish during a day in 1625 and end with World Food Board proposal by FAO in 1946.

SCIENTISTS WHO CHANGED THE WORLD—Lynn and Gray Poole—*Dodd*, 164 p., illus., \$3. Introduces young people to the work of creative and original scientists whose ideas changed the established beliefs of their time.

SEA BEARS: The Story of the Fur Seal—Fredericka Martin—*Chilton Co.*, 201 p., photographs, \$3.50. About the Alaskan sea bears, the Aleutians who hunt them, and the fur trade.

SIGHT: A Handbook for Laymen—Roy O. Scholz—*Doubleday*, 166 p., illus., \$3.50. To give the reader a broad non-technical view of the functioning of the eye in health and disease.

SMITHSONIAN TREASURY OF SCIENCE, Vols. I-III—Webster P. True, Ed.—*Simon & Schuster*, 1208 p., illus., boxed set of 3 vols. \$15, Christmas price \$12.95. Fifty articles from the annals of the Smithsonian Institution by some of the world's foremost authorities, covering almost every field of human knowledge.

STEREO Hi-Fi HANDBOOK—Joseph Marshall—*Arco*, 140 p., illus., \$2.50. Tells the hobbyist how to choose and assemble high-fidelity equipment.

SYMPOSIUM ON FATIGUE OF AIRCRAFT STRUCTURES—Herbert E. Hardrath, Chmn.—*Am. Soc. for Testing Materials*, 138 p., illus., \$4. Papers presented at Third Pacific Area National Meeting in San Francisco in 1959.

SYMPOSIUM ON SPECTROSCOPY—Emery H. Rogers and John B. Marlin, Co-Chmn.—*Am. Soc. for Testing Materials*, 245 p., illus., \$7. Includes emission, X-ray, flame photometry, ultraviolet absorption, magnetic resonance and infrared spectroscopy.

THOMAS JEFFERSON AND HIS WORLD—Henry Moscow with Dumas Malone—*American Heritage (Golden Press)*, 154 p., 170 illus., \$3.50. Presents beautifully the genius of Jefferson; includes his inventions.

TREATISE ON INVERTEBRATE PALEONTOLOGY, Part I: Mollusca I—Raymond C. Moore, Ed.—*Univ. of Kansas Press*, 351 p., illus., \$7.50. Comprehensive summary of knowledge concerning invertebrate fossil groups, results of investigations by specialists in many countries.

WHAT DOES A PARACHUTIST DO?—Wayne Hyde—*Dodd*, 64 p., photographs, \$2.50. Shows youngsters the training of parachutist.

WILLIAM JAMES ON PSYCHICAL RESEARCH—Gardner Murphy and Robert O. Ballou, Eds.—*Viking*, 339 p., illus., \$6. Collection of James's writings on telepathy, mediumship and survival after death.

WONDERS OF THE ANTHILL—Sigmund A. Lavine—*Dodd*, 64 p., illus. by E. H. Hart, \$2.95. Handsome and informative book for boys and girls.

THE WORLD AROUND US—Jean Petrus—*Grosset*, 64 p., illus. by Pierre Leroy and Jean Steen, \$2.95. Large-format illustrated geography book for boys and girls.

• Science News Letter, 78:252 October 15, 1960