

# Books of the Week

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**AUDIO-VISUAL AIDS IN THE ARMED SERVICES**—John R. Miles and Charles R. Spain *Am. Council on Education*, 96 p., illus., paper, \$1.25. Wartime necessity taught many through the use of visual, auditory, and tactile aids; this report of the Commission on Implications of the Armed Services Education Program explores these lessons with a view to their place in peacetime education.

**CARNEGIE INSTITUTION OF WASHINGTON, YEARBOOK no. 45: July 1, 1945-June 30, 1946**—*Carnegie Inst.*, 235 p., tables, paper, \$1; cloth, \$1.50.

**FIRST PENTHOUSE DWELLERS OF AMERICA**—Ruth Underhill—*Southwestern Monuments Assn.*, 160 p., illus., \$4.25. Long out of print, this revised edition tells the story of the Pueblo Indians, their life, customs, and history. It is a handsome book with thoughtfully chosen photographs.

**FIRST YEAR QUALITATIVE ANALYSIS**—Carl J. Likes and Aubrey E. Harvey—*Crowell*, 134 p., a textbook written for colleges where qualitative analysis is included as the latter part of a first-year general chemistry course.

**FOUNDATIONS OF DEMOCRACY**—F. Ernest Johnson, ed.—*Inst. for Religious and Social Studies*, 278 p., \$2. An analysis of the historical, philosophical and religious sources of democracy.

**FUNDAMENTALS OF PLASTICS**—H. M. Richardson and J. Watson Wilson, eds.—*McGraw-Hill*, 483 p., illus., \$5. This survey for students includes four sections: relationship of chemical structure to physical properties, the six classes of plastics, commercial manufacture, and an evaluation of testing methods.

**A HANDBOOK OF COMMONLY USED DRUGS**—Michael Pijoan and Clark H. Yaeger—*Thomas*, 182 p., \$3.75. A small compact book for use where standard texts on pharmacology are unavailable, it deals with drugs, their usage, preparation and techniques and is the result of experience in field expeditions.

**HUMAN GENETICS**—Reginald Ruggles Gates—*Macmillan*, 2 vols., illus., \$15. Using embryology, morphology, physiology, biochemistry and anthropology, this comprehensive work explains the development and

inheritance of both normal and abnormal conditions.

**INSECTS OF GUAM—II**—Bernice P. Bishop *Museum Bulletin* 189—*Bishop Museum*, 237 p., illus., paper, \$2.50. The discussions include about 470 species of which 94 are described as new; the material is mainly from collections made in Guam by D. T. Fullaway and O. H. Swezey and Usinger.

**MESON THEORY OF NUCLEAR FORCES**—Wolfgang Pauli—*Interscience*, 80 p., \$2. A collection of the author's lectures at M. I. T. serve to give students and research workers an introduction to the theory of the interaction of mesons with protons and neutrons (nucleons) and the interactions between nucleons derived from it.

**MUSICAL ACOUSTICS**—Charles A. Culver—*Blakiston*, 2nd ed., 215 p., illus., \$3. A textbook for music students applying fundamental laws of acoustics to this field.

**THE POETRY OF MATHEMATICS AND OTHER ESSAYS**—David Eugene Smith—*Scripta Mathematica*, 90 p., \$1.25. These articles, while not in themselves mathematical, relate to lines of interest which mathematics suggests.

**RADIO-CRAFT LIBRARY, Nos. 29, 30, 32, 33, 36, 37, 38**—Editors of *Radiocraft*—*Radiocraft Publ.*, 64 p., illus., paper, each 50 cents. Titles: Handy Kinks and Short Cuts, Unusual Patented Circuits 1944-1946, Advanced Service Technique, Amplifier Builder's Guide, Radio Test Instruments, Elementary Radio Servicing, How to Build Radio Receivers.

**RAW MATERIALS FROM THE SEA**—E. F. Armstrong and L. M. Miall—*Chemical Pub.*, 196 p., illus., \$3.75. The chemical problems represented by the oceans are discussed, the substances present in them in minor quantities, and their winning from the sea.

**TEN GREAT INVENTIONS, National Machine Tool Builders' Assn.**, 30 p., illus., paper, free. Ten historical inventions are described which were introduced shortly after the invention of basic machine tools.

**THE TREATY OF VERSAILLES AND AFTER: Annotations of the Text of the Treaty**—U. S. Dept. of State—*Govt. Printing Office*, State Dept. Publ. No. 2724, 117 p., \$3.25. This historical document was prepared for the delegates to the Foreign Ministers Conference in Moscow; it should clarify the treaty.

**UNITY AND DIFFERENCE IN AMERICAN LIFE**—R. M. MacIver—*Inst. for Religious and Social Studies*, 167 p., \$2. Three sections cover the common ground, the dividing issues, and what we can do about them.

**THE WALLACES OF IOWA**—Russell Lord—*Houghton*, 615 p., illus., \$5. The three generations of Wallaces, covering a century of history and growth of America, are portrayed here.

**THE WORLD AT THE CROSSROADS**—A. Blaine, E. H. Cassels, E. R. Embree, W. W. Waymack, Q. Wright—*World Citizens Assn.*, 160 p., paper, 25 cents. The execu-

tive committee of this organization states the present situation of the world with respect to peace, urges all to accept and support the United Nations, and states the aims of the World Citizens Association.

*Science News Letter, April 5, 1947*

## PHYSICS

### System Promises to Make All Ports Free of Ice

► RUSSIA'S ENDLESS quest for an ice-free port may have been solved, without need for territorial expansion, by a Swedish invention on which U. S. patent 2,417,519 has been issued. If it works out as described, it would make ice-free ports of Leningrad or Vladivostok or any harbor on any wintry coast.

The invention is the work of Bengt O. E. Persson of Enebyberg and Erik Forslind of Stockholm. It consists simply of long lines of perforated pipes laid under the channel to be kept ice-free. Air is pumped through the pipes. As the bubbles rise in streams from the perforations they pull currents of water upward along with them. This water, which is above thawing temperature, displaces the thin stratum of cold water immediately under the ice, and proceeds to melt a clear channel. If used early enough in the winter, it can prevent the initial formation of ice, the inventors claim.

*Science News Letter, April 5, 1947*

Water in which houseplant cuttings are rooted should be changed frequently so that oxygen will be available for the rooting.

## YOUR HAIR

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and Howard T. Behrman, M.D.

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