

# Books of the Week

TO SERVE YOU: To get books, send us a check or money order to cover retail price. Address Book Dept., SCIENCE NEWS LETTER, 1719 N St., N. W. Washington 6, D. C. Ask for free publications direct from issuing organizations.

**BASIC THEORIES OF PHYSICS: Mechanics and and Electrodynamics**—Peter Gabriel Bergmann—*Prentice-Hall*, 280 p., illus., \$5.00. An introduction to the theories of mechanics and electrodynamics on an advanced level. A basic text for introductory theoretical physics.

**THE BORUCA OF COSTA RICA**, Vol. XXVI, No. 2—Doris Z. Stone—*Peabody Museum of American Archaeology and Ethnology*, 50 p., illus., paper, \$2.50. An introductory report on the present-day Boruca Indians of southeastern Costa Rica.

**BRAZIL WORLD FRONTIER**—Benjamin H. Hunnicutt—*Van Nostrand*, 387 p., illus., \$6.00. A report on the present and future potentials. A social, political, and economic survey.

**CANCER; What to Know, What to do about it**—illus., paper, five cents; **CANCER OF THE BREAST**—20 p., illus., paper, ten cents; **CANCER OF THE FEMALE REPRODUCTIVE ORGANS**—20 p., illus., paper, ten cents; **CANCER OF THE DIGESTIVE TRACT**—24 p., illus., paper, ten cents; **CANCER OF THE MOUTH AND RESPIRATORY TRACT**—20 p., illus., paper, ten cents—National Cancer Institute—*Gov't. Printing Office*. Written in non-technical language, these pamphlets are intended to inform the laymen of the warning signs and symptoms, how to recognize them, and how to receive prompt medical attention.

**EFFECT OF PERMANENT FLOODING IN A RIVER-BOTTOM TIMBER AREA**—Lee E. Yeager—*Illinois Natural History Survey*, 65 p., illus., paper, free upon request to publisher, Urbana, Ill. Report on the Pere Marquette Wildlife Experimental Area.

**ESSENTIALS OF ADOPTION LAW AND PROCEDURE**—Federal Security Agency—*Gov't. Printing Office*, 27 p., paper, 15 cents. A guide to help modernize State adoption laws to protect the best interests of adopted children.

**FRANCISCAN AWATOTI: The Excavation and Conjectural Reconstruction of a 17th-Century Spanish Mission Establishment at a Hopi Indian Town in Northeastern Arizona**, Vol. XXXVI—Ross G. Montgomery, Watson Smith, and John Otis Brew—*Peabody Museum of American Archaeology and Ethnology*, 361 p., illus., paper, \$5.85 (Cloth: \$8.35).

**GEOLOGY OF THE COAST RANGES IMMEDIATELY NORTH OF THE SAN FRANCISCO BAY REGION, CALIFORNIA**—Charles E. Weaver—*Geological Society of America*, Memoir 35, 242 p., illus., \$6.50.

**HANDLING RADIOACTIVE WASTES IN THE ATOMIC ENERGY PROGRAM**—*United States Atomic Energy Commission*, 30 p., paper, 15 cents. A non-technical report describing radioactivity and its biological effects.

**IRON BLAST-FURNACE SLAG PRODUCTION, PROCESSING, PROPERTIES, AND USES**—G. W. Josephson, F. Sillers, Jr., and D. G. Runner—*Gov't Printing Office*, 304 p., illus., paper, 75 cents. A report of the National Slag Association based on data gathered by the Problem Committee of the Association.

**MENTAL HEALTH IS A FAMILY AFFAIR**—Dallas Pratt and Jack Neher—*Public Affairs Committee*, 31 p., illus., paper, 20 cents. Presents some of the causes of personality problems

in families and suggests some preventive methods.

**NEVER TOO OLD**—*New York State Joint Legislative Committee on Problems of the Aging*, 216 p., illus., paper, free upon request to the publisher, 94 Broadway, Newburgh, N. Y. Intended to help pave the way for better understanding of the needs and capabilities of our oldsters.

**NEW YORK UNIVERSITY—BELLEVUE MEDICAL CENTER: Annual Report 1948-1949**—*New York University-Bellevue Medical Center*, 64 p., illus., paper, free upon request to publisher, 477 First Avenue, New York 16, N. Y. A report of the important developments of the medical center's first full year of operation.

**1949 FACTS ABOUT NURSING**—*American Nurses' Association*—12th ed., 94 p., illus., paper, 50 cents. Latest available basic data.

**PREDICTING SUCCESS IN PROFESSIONAL SCHOOLS**—Dewey B. Stuit and others—*American Council on Education*, 187 p., \$3.00. A report on the effectiveness of educational and vocational counseling.

**THE QUESTION OF ESTABLISHING UNITED NATIONS RESEARCH LABORATORIES**—Department of Social Affairs—*United Nations*, 290 p., paper, \$2.00. Leading authorities discuss the pros and cons of establishing international research laboratories.

**RESEARCH IN REVIEW: Sixth Report, 1949**—*Sugar Research Foundation*, 45 p., paper, free upon request to publisher, 52 Wall Street, New York 5, N. Y. Trends and achievements in sugar research.

**SAFE HANDLING OF RADIOACTIVE ISOTOPES**—National Bureau of Standards—*Gov't. Printing Office*, 30 p., illus., paper, 15 cents. A handbook giving general recommendations suitable for typical laboratory or small industrial operations.

**SELENIUM**—Sam F. Trelease and Orville A. Brath (Publisher's address: Sam F. Trelease, Box 42, Schermerhorn Hall, Columbia University New York 27, N. Y.), 292 p., illus., \$5.50. Its geological occurrence and its biological effects in relation to botany, chemistry, and agriculture, nutrition and medicine. The first literature citation is to an article by Science Service on "A disease supposed to be due to grain."

Science News Letter, December 24, 1949

## INDUSTRY

### Cheaper Paper from Wheat Straw Is Promised

➤ A NEW grain belt industry, paper from wheat straw, may result from cheap water transportation resulting from current river development schemes, W. J. Promersberger, professor of agricultural engineering at North Dakota Agricultural College in Fargo, N. D., predicts.

Wheat straw is known to make good packaging paper, box board and building board. Transportation costs have been too high for profitable commercial manufacture. Shipping over 100 miles makes the

price of the finished product prohibitive.

This obstacle will be overcome, Prof. Promersberger believes, when large bodies of dammed water become available close to the wheat fields.

"It is not outside the realm of possibility that the Missouri-Souris development will overcome this shortage," he said. "Perhaps some day we shall see near Garrison, N. D. dam, or near some other dam, a paper board factory lying in the midst of a wide area of cheap straw, with both cheap water and cheap fuel—lignite—right at hand."

Science News Letter, December 24, 1949

High-frequency radio signals in an atmosphere of certain gases are used in a new process to obtain temperatures high enough to melt tungsten, the melting point of which is about 3370 degrees Centigrade.

## RADIO

Saturday, December 31, 3:15 p. m., EST

"Adventures in Science" with Watson Davis, director of Science Service over Columbia Broadcasting System.

Mr. Davis will broadcast a "Report from American Association for Advancement of Science" from the annual meeting in New York at which time he will bring to the microphone scientists who have made the most interesting and important announcements during the week.

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