

# 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 publication direct from issuing organizations.

**AN ANALYSIS OF CULTURE CHANGE IN THE ACKMEN-LOWRY AREA**—John B. Rinaldo—*Chicago Natural History Museum*, approx. 13 p., illus., paper, 25 cents. A study of different pottery types and how they were made. Other artifacts are briefly analyzed.

**ANNUAL REPRINT OF THE REPORTS OF THE COUNCIL ON PHARMACY AND CHEMISTRY OF THE AMERICAN MEDICAL ASSOCIATION: With the Comments That Have Appeared in the Journal of the American Medical Association**—*Lippincott*, 231 p., illus., \$2.00.

**ANTIMETABOLITES**—D. W. Woolley, Conference Chairman—*New York Academy of Sciences*, approx. 184 p., illus., \$2.75. This is a series of papers resulting from a Conference on Development and Uses of Antimetabolites, held by the section of biology, New York Academy of Sciences, Feb. 11-12, 1949.

**THE ARMY AIR FORCES IN WORLD WAR II, Vol. IV: The Pacific: Guadalcanal to Saipan, August 1942 to July 1944**—Wesley Frank Craven and James Lea Cate, Eds.—*University of Chicago Press*, 824 p., illus., \$6.00. Describes air strategy and tactics used in these theaters.

**THE EFFECTS OF ATOMIC WEAPONS**—Samuel Glasstone, Executive Editor—*Gov't. Printing Office*, 456 p., illus., paper, \$1.25. A handbook on the effects of atomic weapons prepared by the Los Alamos Scientific Laboratory. Such topics as shock from underwater and underground atomic bursts, a description of an atomic explosion, physical damage, incendiary effects, decontamination and effects on personnel are discussed. (See p. 122.)

**FIRST COURSE IN PROBABILITY AND STATISTICS**—J. Neyman—*Holt*, 350 p., illus., \$3.50. An introductory text planned for a one-semester course.

**FLAVOR, TEXTURE, COLOR, AND ASCORBIC ACID CONTENT OF HOME-DEHYDRATED VEGETABLES AND FRUITS**—Elsie H. Dawson, Esther L. Batchelder and R. Katherine Taube—*Gov't. Printing Office*, U. S. Dept. of Ag. Tech. Bull. No. 997, 66 p., illus., paper, 20 cents.

**HOW SCIENCE TEACHERS USE BUSINESS-SPONSORED TEACHING AIDS**—Advisory Council on Industry-Science Teaching Relations—*National Science Teachers Association*, 36 p., illus., paper, \$1.00. The results of a survey.

**THE ILLUSTRATIONS FROM THE WORKS OF ANDREAS VESALIUS OF BRUSSELS: With Annotations and Translations, A Discussion of the Plates and Their Background, Authorship and Influence, and A Biographical Sketch of Vesalius**—J. B. deC. M. Saunders and Charles D. O'Malley—*World*, 248 p., illus., \$10.00.

**INTRODUCTION TO ELECTRICITY AND OPTICS**—Nathaniel H. Frank—*McGraw-Hill*, 2nd ed., 440 p., illus., \$5.00. A college text brought up-to-date.

**LOVE IS NOT ENOUGH: The Treatment of Emotionally Disturbed Children**—Bruno Bettelheim—*Free Press*, 386 p., illus., \$4.50. A report on how seriously disturbed children are helped in attaining mental health. A description of the work of the University of Chi-

ago's Sonia Shankman Orthogenic School. (See SNL, Aug. 12.)

**ON SETS OF PROBABILITY LAWS AND THEIR LIMIT ELEMENTS**—Michel Loeve—*University of California Press*, approx. 34 p., 50 cents.

**THE PATHOGENESIS AND PATHOLOGY OF VIRAL DISEASES**—John G. Kidd, Ed.—*Columbia University Press*, 235 p., illus., \$5.00. Contains some of the latest information in the field of virology or the science of viruses. The third symposium held at the New York Academy of Medicine, by the Section on Microbiology, Dec. 14-15, 1948.

**PERCEPTUAL FACTORS IN DELAYED RESPONSE**—Joseph H. Handlon, Jr.—*University of California Press*, approx. 31 p., illus., paper, 50 cents.

**THE RISE OF WORDS AND THEIR MEANING**—Samuel Reiss—*Philosophical Library*, 301 p., \$3.75. The author traces the development of words in relationship to language, sounds, meanings, basic characters and origins.

**SEXUAL FEAR**—Edwin W. Hirsh—*Garden City*, 307 p., \$3.00. Reviews the development of sexual fear through the centuries, from ancient Babylonia to modern times.

**TITANIUM IN STEEL**—George F. Comstock, Stephen F. Urban and Morris Cohen—*Pitman*, 320 p., illus., \$7.50. A critical summary of available data on the use of titanium as a deoxidizer, as a carbon- and nitrogen-stabilizing element and as an alloy metal in steel.

**VOCATIONAL REHABILITATION OF PSYCHIATRIC PATIENTS**—Thomas A. C. Rennie, Temple Burling and Luther E. Woodward—*The Commonwealth Fund*, 133 p., 75 cents. Such topics as transition from patient to worker, the need for rehabilitation services, job finding and placement and research needs are discussed.

Science News Letter, August 19, 1950

## CHEMISTRY

### Household Cleaning Fluid Poisons and Kills

➤ A WARNING to doctors throughout the nation that there are probably many more deaths and cases of poisoning from carbon tetrachloride than are diagnosed is issued in the JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION (July 15).

In 26 cases traced to this chemical in patients at the Staten Island U. S. Marine Hospital, there were eight deaths, Drs. Robert M. Farrier and Richard H. Smith of the U. S. Public Health Service report.

Most of the victims used the carbon tetrachloride for cleaning clothes or other purposes, and most of them were drinking at the time. Use of alcohol seems to increase acute poisoning and also obscure the cause in the patient's mind.

Failure of the kidney to function properly (anuria) is a prime symptom, but because there is a time interval between the ex-

posure and the renal symptoms the patient seldom associates his trouble with the statement of potential hazard in fine print on the carbon tetrachloride bottle.

Most cases of carbon tetrachloride nephrosis are now non-industrial, the doctors find. Large industries using the chemical have become aware of its hazards and have applied effective safeguards, but it is purchased by individuals for cleaning purposes and often carelessly used. Physicians should be suspicious that this chemical is involved when they diagnose kidney trouble.

Science News Letter, August 19, 1950

## On This Week's Cover

➤ THE U. S. Air Force speedy Stratojet bomber (B-47) is shown in flight, the picture being of the first of the new planes under production at Wichita, Kans., by the Boeing Airplane Company. An experimental model of this plane flew across the continent last year at an average speed of 607.8 miles an hour, making the trip in three hours and 46 minutes.

The swept-back wings of the plane, which are in part responsible for its speed, are shown. It is powered by six General Electric jet engines. It can carry 10 tons of bombs and has a take-off gross weight of 185,000 pounds.

Science News Letter, August 19, 1950



### NEW SPEEDOMAX plots X vs. Y automatically

Boon to engineering and research laboratories, this new Speedomax X-Y Recorder draws . . . in only seconds . . . a continuous curve showing the relation between any two variables brought to the instrument in the form of d-c signals. Speedomax does away with hours of tedious compiling and point-by-point plotting of data. For ranges and speeds, send for Folder EM9-420(1).



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