

Books of the Week

AMERICA'S NEW OPPORTUNITIES IN WORLD TRADE—*Nat. Planning Assn.*, 79 p., paper, 50c (Planning Pamphlets Nos. 37-38).

BURMA SURGEON—Lt. Col. Gordon S. Seagrave—*Infantry Journal*, 215 p., paper, 25c.

THE CAPTURE OF ATTU, As Told by the Men Who Fought There—The War Department—*Infantry Journal*, 217 p., paper, illus., 25c.

FREUD, MASTER AND FRIEND—Hanns Sachs—*Harvard Univ. Press.*, 195 p., illus., \$2.50.

HANDBOOK OF INDUSTRIAL PSYCHOLOGY—May Smith—*Philosophical Lib.*, 304 p., \$5.

IMMUNO-CATALYSIS—M. G. Sevag—C. C. Thomas, 272 p., \$4.50.

INTERNATIONAL AIR TRANSPORT—Brig.-Gen. Sir Osborne Mance—*Oxford*, 117 p., paper, illus., \$1.

INTERNATIONAL TELECOMMUNICATIONS—Brig.-Gen. Sir Osborne Mance—*Oxford*, 90 p., paper, \$1.

JOURNALS DEALING WITH THE NATURAL, PHYSICAL AND MATHEMATICAL SCIENCES IN LATIN AMERICA, a Tentative Directory—Katherine Lenore Morgan—*Pan American Union*, 62 p., paper, 50c.

LEADERSHIP FOR AMERICAN ARMY LEADERS—Col. Edward Lyman Munson, Jr.—*Infantry Journal*, 99 p., paper, 25c.

ORGANIC CHEMISTRY—Louis F. Fieser and Mary Fieser—*Heath*, 698 p., illus., \$4.

A REVIEW OF STUDIES ON THE MEXICAN FRUITFLY AND RELATED MEXICAN SPECIES—A. C. Baker and others—*Gov. Print. Off.*, 155 p., paper, illus., 35c (U. S. Dept. of Agric., Misc. Pub. No. 531).

SOUTHERN HORTICULTURE—H. P. Stuckey—*T. E. Smith*, 688 p., illus., \$2.56.
Science News Letter, December 16, 1944

ASTRONOMY

Synthetic Sky Speeds Training of Navigators

➤ A SYNTHETIC SKY, studded with shining electric stars, to be used in training air navigators to find their way at night over any land or sea in the world, has been patented by Edwin A. Link of Binghamton, N. Y., already well known as the inventor of the widely used Link trainer for pilots. His new invention is covered by U. S. patent 2,364,539.

In the device, the trainee sits in a replica of the navigator's place in a bomber. Over his head is a dome-shaped canopy, with bright pin-points of electric light to represent the stars. By a series of electric controls at the command

of the instructor, this artificial sky can be "set" for any hour of the night, any season of the year, any latitude and longitude on earth. The stars may all be turned on at full brilliance, or they may be partly dimmed out as by thin overcast.

To make the illusion even more complete, and to give the young trainee full measure of actual working difficulties, a series of motions of his seat and desk are arranged for, simulating the motions of a plane in flight.

Science News Letter, December 16, 1944

INVENTION

Rubber Articles Are Plastic-Bonded for Leakage

➤ RUBBER tires, gasoline tanks, hot-water bottles and similar articles are made proof against leakage of either air or liquids by a double-walled, plastic-bonded construction on which Edwin T. Wyman of Brookline, Mass., has taken out patent 2,360,925. The plastic between the two bounding layers of vulcanized rubber automatically seals incipient leaks and small punctures and prevents their becoming more serious.

Science News Letter, December 16, 1944

Post-Surgical Starvation

with its wastage of body tissues, especially tissue and plasma protein, "begins almost at once after protein is omitted from the diet." Hence it is recommended* that meat and other protein foods be added to the diet as soon as possible after surgery. Meat is not only rich in protein, but its protein is of highest quality, able to meet every protein need.

*"Surgeons are accustomed to attribute most of the postoperative weakness or asthenia to the operative procedure without realizing that much of it may actually be due to starvation, particularly deprivation of protein . . . the fall in plasma albumin begins with the very onset of a protein deficient diet . . . Solid food, as eggs and meat, should be added as soon as possible. Most postoperative patients can eat food much earlier than they are usually permitted to." Elman, R.: Acute Starvation Following Operation or Injury: With Special Reference to Caloric and Protein Needs, *Ann. Surg.* 120:350-361 (Sept.) 1944.



The Seal of Acceptance denotes that the nutritional statements made in this advertisement are acceptable to the Council on Foods and Nutrition of the American Medical Association.

AMERICAN MEAT INSTITUTE
MAIN OFFICE, CHICAGO...MEMBERS THROUGHOUT THE UNITED STATES