

Books of the Week

For the editorial information of our readers, books received for review since last week's issue 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. Request free publications direct from publisher, not from Science Service.

ABOUT MICE AND MAN: An Introduction to Mammalian Biology—Frederick R. Avis, foreword by Hudson Hoagland—*J. Weston Walch*, 194 p., illus., paper, \$3.00. Designed to be used as a laboratory manual for introductory courses in biology and as a basis for second year courses at the high school level.

ARIZONA'S METEORITE CRATER: Past, Present, Future—H. H. Nininger—*American Meteorite Museum*, 232 p., illus., \$3.75. Telling the story of this meteorite crater, some 4,000 feet across, and attempting to evaluate the research carried on at this well-known example of such craters.

ENZYME, ANTIGEN AND VIRUS: A study of Macromolecular Pattern in Action—F. MacFarlane Burnet—*Cambridge University Press*, 193 p., illus., \$3.50. Attempting to find common factors in what is known about the production of adaptive enzymes, the stimulation of antibody production by antigen, and the intracellular multiplication of influenza and other viruses.

FUNDAMENTALS OF HORTICULTURE: A Textbook Designed for Courses in General Horticulture—J. B. Edmond, A. M. Musser and F. S. Andrews—*McGraw-Hill*, 2nd ed., 456 p., illus., \$6.75. Emphasizing the fundamentals of plant growth and their application to production problems.

MEDICAL SCIENCE: Vol. I, No. 1, January 10, 1957—Walter Kahoe and Henry Michael, Eds.—

Medical Science (Lippincott), 64 p., paper, semi-monthly, single copies 50 cents, \$10.00 per year. Presenting information for the medical profession on what is being discussed in medical research as to new therapeutic measures, new diagnostic procedures and new surgical techniques.

THE MILKY WAY—Bart J. Bok and Priscilla F. Bok—*Harvard University Press*, 3rd ed., 269 p., illus., \$5.50. To take you on a scientific "journey" to the Milky Way, the galaxy in which are located our sun, solar system and us.

THE MIRACLE OF GROWTH—Prepared in co-operation with the Museum of Science and Industry and the University of Illinois Professional Colleges—*Pyramid Royal*, 93 p., illus., paper, 35 cents. This book, first published in 1950 is based upon an exhibit developed by the University of Illinois and the Museum of Science and Industry, Chicago. Describing growth of a human being from conception to manhood.

SOCIAL WORK YEAR BOOK 1957: A Description of Organized Activities in Social Work and in Related Fields—Russell H. Kurtz, Ed.—*National Association of Social Workers*, 13th issue, 752 p., \$7.50. Bringing up-to-date this reference work in the social welfare field.

SUN, EARTH AND MAN—George P. and Eunice S. Bischof—*Harcourt, Brace*, 118 p., illus., \$2.75. The story of man and his environment, telling for young people of his attempts to adapt to and control the forces of nature.

THEORIES OF PERSONALITY—Calvin S. Hall and Gardner Lindzey—*Wiley*, 572 p., illus., \$6.50. Summarizing the major contemporary theories of personality for the graduate or advanced undergraduate student.

UNESCO SOURCE BOOK FOR SCIENCE TEACHING—*UNESCO*, 222 p., illus., paper, \$2.50. Science teaching should be based on observation and experiment. This book includes instructions for making many pieces of simple apparatus from materials usually available and for performing experiments with this apparatus to help

students in the elementary and early secondary grades visualize science.

VERTEBRATE EMBRYOLOGY—Robert S. McEwen—*Holt*, 4th ed., 701 p., illus., \$6.50. Designed as an introductory text, this book has retained in this new edition the fundamental plan and character of the other edition. Wherever necessary the text has been changed to bring it up-to-date.

VIBRATION ANALYSIS TABLES—R. E. D. Bishop and D. C. Johnson—*Cambridge University Press*, 59 p., paper, \$2.00. These tables may be used to simplify the calculation of the natural frequencies of conservative systems.

Science News Letter, February 2, 1957

ENGINEERING

New Army Device Spots Enemy Mortars

► THE U. S. ARMY now has an electronic device that can pinpoint enemy mortars in a matter of seconds.

The new mortar spotter makes use of a built-in electronic brain to locate an enemy position. Compact and mobile, the spotter has a stationary "bulldozer-blade" antenna that automatically picks up anything in its sector.

When a mortar shell comes zooming in, the projectile appears as blips on a screen. The operator scanning the screen centers the blips on hairlines, and the computer gives him a direct map coordinate reading of the enemy position.

Designed to be carried about on a two-wheel trailer, the spotter can be operated by remote control from 150 yards away, if need be.

It is an improved version of an earlier U. S. Army Signal Corps locator used in the later stages of the Korean War. The first model was built by the Signal Corps Engineering Laboratories.

Science News Letter, February 2, 1957

PSYCHOLOGY

Aircraft Mechanic Need Not Be a Genius

► PRACTICAL CAPABILITY on the job is more important for the aircraft mechanic than high intelligence.

This was found when psychologists Charles Wrigley, Charles N. Cherry, Marilyn C. Lee and Prof. Louis L. McQuitty of the University of Illinois asked 464 supervisors of Air Force aircraft and engine mechanics to describe the best mechanic they had ever worked with as well as the poorest and the average.

Greatest drawback in a mechanic was found to be lack of motivation and a poor sense of responsibility. That was worse than a lack of ability to get along well with other mechanics.

Next to general job efficiency in importance for the aircraft mechanic as judged by supervisors is mechanical proficiency.

Personal charm and orderliness are considered least important by supervisors. Details of the study are reported in *Psychological Monographs* (No. 430).

Science News Letter, February 2, 1957

A MATH COURSE THAT FIGURES!

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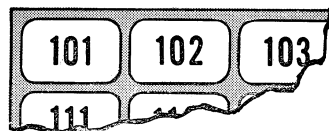
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