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# 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.

**ACTIONS OF RADIATIONS ON LIVING CELLS**—D. E. Lea—*Cambridge University Press*, 2d ed., 416 p., illus., \$6.00. Because this book has been out of print for some time, this new edition is made available without much change except for some additions and revisions, made by the author before his death, which are incorporated.

**THE ADVANCEMENT OF SCIENCE: Vol. XI, No. 43**—*British Association for the Advancement of Science*, 112 p., paper, 7s., 6d. Including a brief report of the fall meeting of the British Association at Oxford, and some of the papers delivered there.

**AUXINS AND PLANT GROWTH**—A. Carl Leopold—*University of California Press*, 354 p., illus., \$5.00. To provide agricultural research workers with a review of the physiological basis upon which applied technologies rest.

**BASIC ELECTRICITY**—Van Valkenburgh, Nooger and Neville, Inc.—*Rider*, 5 vols., illus., paper, \$2.00 each volume or \$9.00 for the set. A home-study course based on the instruction currently given at Navy specialty schools.

**CELLULAR METABOLISM AND INFECTIONS**—E. Racher, Ed.—*Academic*, 196 p., illus., \$4.80. Papers presented at a symposium held at the New York Academy of Medicine, March 4 and 5, 1954.

**COLOR CHANGE IN OIL PAINTINGS**—Robert L. Feller—*Mellon Institute*, 6 p., illus., paper, free upon request direct to publisher, 4400 Fifth Ave., Pittsburgh 13, Pa. Drawing attention to factors in color change that do not involve alteration of the pigments.

**MAN AND THE VERTEBRATES**—Alfred Sherwood Romer—*Penguin*, 437 p., illus., paper, 2 vols., 85 cents each. The director of the Museum of Comparative Zoology at Harvard gives a picture of the evolution of the human body.

**MIRACLES OF MODERN SURGERY**—Jean Epatvier—*Hastings House*, 166 p., illus., \$3.00. A French journalist describes some operations, both rare and common, that he has witnessed, including the Blue Baby operation, appendicitis and hare lip.

**MODERN ASPECTS OF ELECTROCHEMISTRY**—J. O'M. Bockris, Ed. with the assistance of B. E. Conway—*Academic*, 344 p., illus., \$6.80. Giving special attention to fields in which development has recently been considerable and to fields in which such advances are urgently needed.

**THE NATURE OF THE UNIVERSE**—Fred Hoyle—*New American Library*, 128 p., illus., paper, 35 cents. This book, based on broadcast lectures, presents the author's theories on the origin of the universe. Originally published by Harper.

**PERSPECTIVES AND HORIZONS IN MICROBIOLOGY: A Symposium**—Selman A. Waksman, Ed.—*Rutgers University Press*, 220 p., illus., \$3.50. Contributions to a symposium held in connection with the dedication of the Institute of Microbiology at Rutgers. They deal with the many-sided aspects of a science devoted to microscopic forms of life and their relation to man.

**PROGRESS IN STEREOCHEMISTRY: Volume I**—W. Klyne, Ed.—*Academic*, 378 p., illus., \$8.00. Discussing a few of the recent advances in this active field.

**REPORTS OF THE BIOCHEMICAL RESEARCH FOUNDATION OF THE FRANKLIN INSTITUTE: Vol. XII 1952-1953**—Ellice McDonald, director—

*Biochemical Research Foundation*, illus., free upon request direct to publisher, Newark, Del. Research papers by the director and members of the Foundation staff.

**THE ROCKEFELLER FOUNDATION ANNUAL REPORT, 1953**—Dean Rusk, President—*Rockefeller Foundation*, 482 p., illus., paper, free upon request to publisher, 49 West 49th St., New York City. Including a discussion of Congressional investigations, and some of the underlying principles which have been at issue.

**SCIENCE AND MAN'S HOPE**—James Street Fulton—*Bookman for Rice Institute*, 179 p., \$3.25. "Science will not save us," writes the author, "but we can learn from it much that would help."

**SCIENCE IN OUR LIVES**—Ritchie Calder—*New American Library*, 192 p., paper, 35 cents. An English science writer tells of the methods of modern science and the relationship of science to other aspects of life.

**SINGLE SIDEBAND FOR THE RADIO AMATEUR**—Byron Goodman and others—*American Radio Relay League*, 176 p., illus., paper, \$1.50. Selected and coordinated articles from past issues of QST telling the amateur how to apply this superior technique of radio telephony on his own set up.

**TELEVISION FOR RADIOMEN**—Edward M. Noll—*Macmillan*, rev. ed., 778 p., illus., \$10.00. An advanced text for practical radiomen.

**TRANSISTOR AUDIO AMPLIFIERS**—Richard F. Shea—*Wiley*, 219 p., illus., \$6.50. A book for the practical engineer on transistor applications.

Science News Letter, January 22, 1955

## GEOLOGY

### Meteorites on Earth Weigh 1,100,000 Pounds

**► MORE THAN 1,100,000 pounds** of meteoritic material from "out of this world" have been identified on earth, Dr. Frederick C. Leonard, professor of astronomy, and Bernard J. Finnegan, graduate student at the University of California at Los Angeles, have calculated.

This figure represents the total weight of all of the known meteoritic material on earth, which they compiled for the first time. It corresponds to a total of 1,495 recorded meteoritic falls.

Meteorites are classified in three general divisions. Siderites are composed almost entirely of nickel-iron. Aerolites, or stony meteorites, are made up mainly of silicate minerals. Siderolites consist of nickel-iron and silicate minerals in roughly equal proportions.

Most of the identified meteoritic weight on earth is in the 542 siderites, which have a combined weight of nearly 428 metric tons, a metric ton being 2,205 pounds.

The 895 aerolites weigh over 18 metric tons, and the 56 siderolites weigh more than 21 metric tons.

Science News Letter, January 22, 1955