

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.

ADVANCES IN BIOLOGICAL AND MEDICAL PHYSICS: Volume IV—John H. Lawrence and Cornelius A. Tobias, Eds.—*Academic*, 356 p., illus., \$8.80. The editors are extending the scope of the articles to include the application of each field of physics to biology and medicine.

AGRICULTURAL ECOLOGY—Girolamo Azzi—*Constable (Essential Books)*, 424 p., illus., \$7.20. Tending to fill the gap between the study of soils, meteorology and plant growth, and restoring the unity of physical environment.

THE AIR FORCE: A Panorama of the Nation's Youngest Service—Arnold Brophy, foreword by Brigadier General Robert L. Scott Jr. — *Gilbert (Messner)*, 362 p., \$5.00. Organization, statistics and history of "our first line of defense."

AMERICAN JUNIOR COLLEGES—Jesse P. Bogue, Ed.—*American Council on Education*, 4th ed., 584 p., \$8.00. Junior colleges, it is becoming apparent, are here to stay. From a total of eight in 1900, they have grown to 598 in 1953. This directory lists them by states. An introductory portion gives general information.

AMERICAN UNIVERSITIES AND COLLEGES—Mary Irwin, Ed.—*American Council on Education*, 7th ed., 1210 p., \$12.00. Introducing this directory is a section of articles on education in the United States.

ASCITES TUMORS AS TOOLS IN QUANTITATIVE ONCOLOGY—Theodore S. Hauschka and others—*New York Academy of Sciences, Annals*, Volume 63, Art. 5, 393 p., illus., paper, \$4.50. Includes discussions of growth and population analysis.

BELLEVUE IS MY HOME—Salvatore R. Cutolo—*Doubleday*, 317 p., \$4.00. This history of a famous hospital includes description of its pioneering out patient department and home care service. By the deputy medical superintendent.

CANCER CYTOLOGY AND CYTOCHEMISTRY—M. J. Kopac and others—*New York Academy of Sciences, Annals*, Volume 63, Art. 6, 429 p., illus., paper, \$4.50. Includes consideration of the cytology of early cancer and of the pre-cancer cell.

FIRE EFFECTS AND FIRE CONTROL IN NITRO-

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CELLULOSE PHOTOGRAPHIC-FILM STORAGE—J. V. Ryan, J. W. Cummings and A. C. Hutton—*Govt. Printing Office*, National Bureau of Standards, Building Materials and Structures Report 145, 20 p., illus., paper, 20 cents. Although manufacture of this inflammable film was discontinued in 1950, large quantities containing important records had already accumulated and must be preserved.

FIREFLY—Paul McCutcheon Sears—*Holiday House*, 38 p., illus., \$2.00. Telling children of the development of this charming insect from glowing egg to flashing winged adult.

THE GEOGRAPHY, BIRDS, AND MAMMALS OF THE PERRY RIVER REGION—Harold C. Hanson, Paul Queneau and Peter Scott—*Arctic Institute of North America*, Special Publication No. 3, 96 p., illus., paper, \$2.00. Report of an investigation of the isolated region discovered in 1938 to contain the nesting grounds of the rare Ross's Goose.

GUIDE TO GOOD LEADERSHIP—Kenneth A. Wells—*Science Research Associates*, 48 p., illus., paper, 50 cents. A booklet for young people by the director of research for the national council of Boy Scouts of America.

THE HUMAN HEREDITY HANDBOOK—Amram Scheinfeld—*Lippincott*, 276 p., illus., \$3.95. Telling clearly how we inherit our own individual makeup.

HUNTERDON MEDICAL CENTER: The Story of One Approach to Rural Medical Care—Ray E. Trussell—*Harvard University Press*, for *Commonwealth Fund*, 236 p., illus., \$3.75. Report of a most interesting experiment in all-round health care for the community, in this case a small rural county. Particularly novel is encouragement of parents to stay with and help care for sick children. No charge is made for the housing of such parents.

THE LEGACY OF SIGMUND FREUD—Jacob A. Arlow—*International Universities Press*, 96 p., illus., \$2.00. Intended to portray to the general public some measure of the genius of Freud and the intellectual wealth he has left to us.

MACHINE LITERATURE SEARCHING—James W. Perry, Allen Kent and Madeline M. Berry with a foreword by Jesse H. Shera—*Western Reserve University Press and Interscience*, 162 p., illus., \$4.00. Telling how mechanical or electronic "brains" can do much of the tedious work that formerly occupied the librarian.

MODERN MAN—Ashley Montagu—*Science Research Associates*, 48 p., illus., paper, 60 cents. To give you an understanding of how modern man developed.

NEW LIVES FOR OLD: Cultural Transformation, Manus, 1928-1953—Margaret Mead—*Morrow*, 548 p., illus., \$6.75. Telling how the "savages" of the Manus covered, in only 25 years, a course of development that had taken mankind many centuries.

PEOPLE—Irvin Block—*Franklin Watts*, 184 p., \$2.95. Explaining to laymen the work of the anthropologist and how the "natural" ways of life differ in different parts of the world.

PERCEPTION AND THE REPRESENTATIVE DESIGN OF PSYCHOLOGICAL EXPERIMENTS—Egon Brunswik—*University of California Press*, 154 p., illus., \$5.00. Laying a foundation for a general theory and stressing the need for a shift toward representativeness in experimental design.

PSYCHOANALYSIS AND PSYCHOTHERAPY: Developments in Theory, Technique, and Training—Franz Alexander—*Norton*, 299 p., \$4.75. Both the severely ill patient, the author points out, and very mild cases do not respond well to classical psychoanalysis, and should therefore be treated with his "psychoanalytically oriented psychotherapy." This text treats the latter and points out how it differs from the standard techniques.

ST. PAUL'S JOURNEYS IN THE GREEK ORIENT—Henri Metzger—*Philosophical Library*, Studies in Biblical Archaeology, No. 4, 75 p., illus., \$2.75. Even today it is possible to retrace the steps of St. Paul on his missionary journeys and savor the flavor of what he encountered.

STATISTICAL ANALYSIS OF HIGHWAY ACCIDENTS—D. M. Belmont and others—*Highway Research Board*, Bulletin 117, 31 p., illus., paper, 75 cents. Surprisingly enough, wider shoulders were found to be associated with increased accident rates, probably because drivers tended to be less careful.

THE STORY OF BLINDNESS—Gabriel Farrell—*Harvard University Press*, 270 p., \$4.50. It is estimated that at least 750,000 Americans now living will be overtaken with blindness. The author, who for 20 years was director of the Perkins Institution, tells what is being done and what can be done to mitigate this handicap.

SUNKEN ISLANDS OF THE MID-PACIFIC MOUNTAINS—Edwin L. Hamilton—*Geological Society of America*, Memoir 64, 97 p., illus., \$2.50. Reporting investigation of the flat-topped seamounts hidden deep under the Pacific Ocean.

TEACHERS HANDBOOK: A Guide to the Interpretation and Follow-Up of Achievement Scores—Louis P. Thorpe, D. Welty LeFever and Robert A. Naslund—*Science Research Associates*, Achievement Series, 47 p., illus., paper, 35 cents. To help the teacher to interpret scores and use them to aid the student.

THE USE OF CHEMICAL ADDITIVES IN FOOD PROCESSING—W. J. Darby, Chairman—*National Academy of Sciences—National Research Council*, Publication 398, 91 p., paper, \$2.00. An estimated 704 chemicals are used in food production, but many are used in such minute amounts and in such infrequently consumed foods that negligible quantities are involved. Others such as salt, baking soda and vegetable colors are used in every kitchen.

WONDER WORLD OF MICROBES—Madeleine P. Grant—*Whittlesey House*, 160 p., illus., \$2.75. Helping children, through their own experiments, to learn about an important aspect of our life.

Science News Letter, May 12, 1956

Aphids are a major factor in the spread of virus diseases of peas.

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