

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.

BALI: TEMPLE FESTIVAL—Jane Belo—*Augustin*, Monographs of the American Ethnological Society, XXII, 70 p., illus., \$2.75. Based on material collected from 1931 to 1939 before the Japanese occupation.

BESSEL FUNCTIONS AND FORMULAE: Extracted from British Association Mathematical Tables, Volume X Bessel Functions, Part II Functions of Positive Integer Order—compiled by W. G. Bickley—*Cambridge University Press*, 40 p., paper, 75 cents.

BLAZING ALASKA'S TRAILS—Alfred Hulse Brooks—*University of Alaska and Arctic Institute of North America*, 528 p., illus., \$4.50. This book was written a generation ago, 1914 to 1922, and the author died in 1924. Because of its great importance it is now being published under the auspices of these two institutions.

BREAKING PATTERNS OF DEFEAT: The Effective Readjustment of the Sick Personality—Richard L. Jenkins—*Lippincott*, 270 p., illus., \$6.75. The successful individual, the author points out, establishes a balance between the needs of his inner self and the needs of society. Out of balance, he becomes tense or maladjusted.

THE CHILD, HIS PARENTS AND THE NURSE—Florence G. Blake, foreword by Adrian H. VanderVeer—*Lippincott*, 440 p., illus., \$5.00. A textbook for a course in nursing care of children, this volume is also intended for parents.

CONTRIBUTIONS TO THE ANTHROPOLOGY OF THE CAUCASUS—Henry Field—*Peabody Museum, Papers Vol. XLVIII, No. 1*, 154 p., illus., paper, \$6.50. Reporting anthropological data obtained within the USSR in 1934 with the "utmost courtesy" and facilitation on the part of Russian scientists. The Caucasus has been occupied by man continuously since palaeolithic times and it was there that Prometheus was, according to legend, bound to a rock for having stolen fire from heaven.

DIZZINESS: An Evaluation and Classification—David Downs DeWeese—*Thomas*, 80 p., illus., \$2.75. A study of different types of dizziness and their causes, which will aid the physician in diagnosis and treatment.

EVOLUTION AND GEOGRAPHY: An Essay on Historical Biogeography With Special Reference to Mammals—George Gaylord Simpson—*Oregon State System of Higher Education*, 64 p., illus., paper, \$1.00. Answering in non-technical language the question, "What lives where?"

GLOBAL EPIDEMIOLOGY: A Geography of Disease and Sanitation: Volume Three, The Near and Middle East—James Stevens Simmons and others—*Lippincott*, 357 p., illus., \$12.00. A brief but comprehensive summary of the disease hazards of Near and Middle East countries, the third of a series of five volumes on international health.

HEADLINE DESIGN: A Handbook—Kenneth B. Butler—*Butler Typo-Design Research Center*, 95 p., illus., paper, \$3.75. A handbook that attempts to be practical as well as creative, and to enable the editor or layout man to improve his publication.

AN INTRODUCTION TO LABORATORY TECHNIQUE IN BACTERIOLOGY—Max Levine—*Macmillan*, 3d ed., 413 p., \$4.50. An exercise is included for preparation of digests in case they become unavailable in time of emergency.

LINEATION: Review of Literature 1942-1952—Ernst Cloos—*Geological Society of America*, 14

p., illus., paper, 25 cents. A critical review and annotated bibliography on this subject was published in 1945. Since then 142 papers by 100 authors have been published. This review brings the bibliography up to date.

THE LIVES OF WILD BIRDS—Aretas A. Saunders—*Doubleday*, 256 p., illus., \$3.50. Showing the bird lover how he can make his bird watching contribute to science.

THE MOTION OF THE HEART: The Story of Cardiovascular Research—Blake Cabot—*Harper*, 173 p., \$2.00. A science writer gives an account of the various lines along which research is being done to attack our most important killer.

NEW GOALS IN POLICE MANAGEMENT—Bruce Smith, Ed.—*American Academy of Political and Social Science*, The Annals Volume 291, 220 p., paper, \$2.00.

ORGANIC CHEMISTRY: A Brief Course—Robert Ward Getchell—*McGraw-Hill*, 278 p., \$4.00. A textbook to serve the student for whom organic chemistry is a cultural tool rather than professional preparation.

PSYCHOLOGY APPLIED TO HUMAN AFFAIRS—J. Stanley Gray—*McGraw-Hill*, 2d ed., 581 p., illus., \$6.00. A classroom textbook not intended for "self-education," reporting facts about how psychology has been used in more than 20 fields. Specialists have contributed chapters on specific applications.

PUBLIC ACCOUNTABILITY OF FOUNDATIONS AND CHARITABLE TRUSTS—Eleanor K. Taylor—*Russell Sage Foundation*, 231 p., \$3.00. An analysis of state and federal legislation and court decisions affecting foundations.

TELEVISION WORKS LIKE THIS—Jeanne and Robert Bendick—*Whitelsey House*, rev. ed., 64 p., illus., \$2.25. Explaining in brief text and clear drawings not only the technical workings of a television receiver, but the behind-the-scenes details of putting a program on the air.

VIRGINIA MINERAL LOCALITIES—Richard V. Dietrich—*Virginia Polytechnic Institute*, Bulletin, Engineering Experiment Station Series No. 88, 57 p., paper, 50 cents. Compiled mainly from publications and collection lists.

Science News Letter, February 6, 1954

MEDICINE

Mumps Skin Test Material Available

► **NEW MATERIAL** for making skin tests for mumps is now available. Called an antigen, it is made at Lederle Laboratories, Pearl River, N. Y., from allantoic fluid of chick embryos infected with mumps virus.

It will have three uses: to determine whether a patient with mumps-like symptoms could be getting mumps or something else; to diagnose mumps when there is no swelling around the ears but other organs, such as sex glands and pancreas, are affected; and to determine whether a person exposed to mumps is susceptible to the disease and may need mumps vaccine to protect him.

Science News Letter, February 6, 1954

CHEMISTRY

Mystery Element Stands Very High Temperatures

► **DON'T WORRY** about the amount of hafnium in your zirconium.

Tests on pure isotopes of these twin elements just completed show that heat-resisting ceramics made of pure hafnium can take 1,700 degrees Centigrade without cracking up, while similar products made from pure zirconium go to pieces at about 1,000 degrees. Zirconium is the metal obtained from zircon, sparkling substitute for diamonds.

Wanted for the framework of nuclear reactors, zirconium is being studied for heat resistance by the ceramics department of Oak Ridge National Laboratory, Oak Ridge, Tenn., operated by Union Carbide and Carbon Corporation for the Atomic Energy Commission. Hafnium is a naturally occurring twin element whose compounds are so much like those of zirconium that their separation is almost impossible.

The question whether hafnium is harmful in the mixture has been answered by the new knowledge gained from the pure isotopes. Hafnium is not harmful. It may help in processes stabilizing zirconium for work in hot spots.

Science News Letter, February 6, 1954

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