

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.

THE ADVANCEMENT OF SCIENCE, Vol. IX, No. 35—*British Association for the Advancement of Science*, 93 p., paper, six shillings. Papers on a variety of scientific subjects in the official journal of the British Association.

ANNUAL REPORT FOR 1952—Federal Civil Defense Administration—*Govt. Printing Office*, 138 p., illus., paper, 40 cents. The U. S. home front is far from ready to meet an all-out enemy attack, but it is measurably more ready than it was a year ago. Over 4,000,000 citizens are now in active civil defense services. (See p. 141.)

BEYOND HORIZONS: Voyages of Adventure and Discovery—Carleton Mitchell—*Norton*, 312 p., illus., \$3.95. Chronicles of great and interesting sea voyages of the past, such as Anson's squadron rounding Cape Horn, the discovery of Tahiti, etc., are here retold in modern language.

CONTRIBUTIONS TO THE FLORA OF VENEZUELA: From Droseraceae through Umbelliferae—Julian A. Steyermark and others—*Chicago Natural History Museum*, 204 p., illus., paper, \$4.00.

ECONOMICS OF NATURAL GAS IN TEXAS—John R. Stockton, Richard C. Henshaw, Jr., and Richard W. Graves—*Bureau of Business Research, University of Texas*, 316 p., illus., \$5.00. Natural gas was first piped and put to practical use in China in or before 200 A.D. The first producing well in Texas dates from 1889. Now it has become the "wonder product and raw material of modern times.

ELEMENTS OF FOOD ENGINEERING, VOLUME I—Milton E. Parker, Ellery H. Harvey, and E. S. Statler—*Reinhold*, 386 p., illus., \$8.75. This college textbook deals with the design, construction and operation of plants for food processing.

ELEMENTS OF THE THEORY OF FUNCTIONS—Konrad Knopp, translated by Frederick Bagemihl—*Dover*, 140 p., paper \$1.25, cloth \$2.25. The first American edition of an important mathematical work.

FLYING SAUCERS—Donald H. Menzel—*Harvard University Press*, 319 p., illus., \$4.75. "Flying saucers are real," this astronomer concludes, "as real as a rainbow and no more dangerous." The cause of most of the real saucers are to be found in the effects of mist, ice crystals or mirages, singly or jointly, he believes.

HUMAN RELATIONS: Concepts and Cases in Concrete Social Science—Volume I, Concepts—Hugh Cabot, Joseph A. Kahl and others—*Harvard University Press*, 333 p., illus., \$4.75. Intended to serve the double purpose of a textbook for college classes in human relations and material for non-academic discussion groups.

HUMAN RELATIONS: Concepts and Cases in Concrete Social Science—Volume II, Cases—Hugh Cabot, Joseph A. Kahl and others—*Harvard University Press*, 273 p., \$4.25. Case material or "raw" facts of difficulties in human relations which can test the ideas presented in Volume I. Food for thought for the individual reader or for discussion in groups.

INK AND PAPER IN THE PRINTING PROCESS—Andries Voet—*Interscience*, 213 p., illus., \$5.90. An introduction to the physics and chemistry of ink and its interaction with paper in the major printing processes. For students of the graphic arts with basic understanding of science.

INTERRACIAL PRACTICES IN THE YMCA: A Guide for Officers and Leaders of Local YMCAs—National Study Commission on Interracial Practices in the YMCA—*Association Press*, 48 p., paper, \$1.00. The YMCA, this bulletin states, has not been satisfied with theories of interracial justice and brotherhood, but has been putting these theories into practice.

THE JOURNAL OF HISTOCHEMISTRY AND CYTOCHEMISTRY: Official Journal of the Histochemical Society, Volume 1, Number 1, R. D. Lillie, Ed.—*Williams and Wilkins*, 86 p., illus., paper, \$7.00 per volume, single copies \$1.50. Published six times a year and devoted to original and review articles in the field.

LATIN AMERICA IN THE COLD WAR—Walter M. Daniels, Ed.—*Wilson*, 206 p., \$1.75. This collection of newspaper and periodical articles tells how the "Cold War" has affected Latin America, and how U. S. preoccupation with Europe and Asia has given rise to anti-democratic elements in the Western Hemisphere.

LECTURES ON CAUCHY'S PROBLEM IN LINEAR PARTIAL DIFFERENTIAL EQUATIONS—Jacques Hadamard—*Dover*, 316 p., paper \$1.70, cloth \$3.50. A reprint for students of an edition originally published in 1923 by Yale University.

LIBERATORS AND HEROES OF THE WEST INDIAN ISLANDS—Marion F. Lansing—*Page*, 294 p., illus., \$4.00. To introduce to Americans some of the important and colorful characters in the history of our neighbors to the south.

MECHANICS OF ELASTIC PERFORMANCE OF TEXTILE MATERIALS—GRAPHICAL ANALYSIS OF FABRIC GEOMETRY—E. V. Painter—*Office of Technical Services*, 29 p., paper, \$1.00. Graphs and time-saving design procedure to enable textile manufacturers to design better fabrics.

METHOD OF CONVERTING HEAVY MOTOR VEHICLE LOADS INTO EQUIVALENT DESIGN LOADS ON THE BASIS OF MAXIMUM BENDING MOVEMENTS—Henson K. Stephenson and Kriss Cloninger, Jr.—*Texas Engineering Experiment Station*, 568 p., paper, \$3.00. Information fundamental to the planning of bridges and other highway structures.

OOLAK'S BROTHER—Bud Helmericks—*Little, Brown*, 144 p., illus., \$2.75. This story tells children how they would live if they were to share the home of an Eskimo family near the North Pole.

PHYSIOLOGY OF SEEDS: An Introduction to the Experimental Study of Seed and Germination Problems—William V. Crocker and Lela V. Barton—*Chronica Botanica*, 267 p., illus., \$6.50. Written from the viewpoint of the investigator of seed problems, this book points out recent progress in seed technology and develops the relation of established knowledge to unsolved problems.

RESEARCH FOR INDUSTRY: Molded Products and Coatings—*Franklin Institute Laboratories for Research and Development*, 16 p., illus., paper, free upon request direct to publisher, Benjamin Franklin Park at 20th Street, Philadelphia 3, Pa. Describing the kinds of research the Institute is prepared to do for industry.

SCIENTIFIC TERMINOLOGY—John N. Hough—*Rinehart*, 231 p., \$3.50. Intended to serve as textbook, especially for pre-medical and pre-biology students, and as a general reference book for the home bookshelf, the book provides an understanding of the structure and origin of words that will make scientific and medical terms meaningful even when first encountered.

THE SECOND SEX—Simone de Beauvoir, translated and edited by H. M. Parshley—*Knopf*, 732 p., \$10.00. An associate of Jean-Paul Sartre, and a French intellectual leader, the author presents not only the biology of sex but woman's place in history, mythology and modern society.

A STUDY OF INDIAN BEADWORK OF THE NORTH CENTRAL PLAINS: Indian Leaflets No. 5-6-7—*Science Museum*, 3 p., illus., paper, 50 cents. With the aid of these charts based on specimens collected by experienced anthropologists, it is possible to identify and date any particular piece of Indian bead work.

TV MANUFACTURERS' RECEIVER TROUBLE CURES, VOLUME I—Milton S. Snitzer, Ed.—*Rider*, 115 p., illus., paper, \$1.80. The makers provide hints on how to make their television sets work better under certain difficult conditions. Covering models from Admiral to Du-mont.

THE THEORY OF ELECTRONS: And Its Applications to the Phenomena of Light and Radiant Heat—H. A. Lorentz—*Dover*, 2d ed., 343 p., paper \$1.70, cloth \$3.50. An unabridged student's edition of a long out-of-print classic originally published in 1906.

THE WONDERFUL WORLD OF BOOKS—Alfred Stefferud, Ed.—*New American Library*, 319 p., illus., paper, 35 cents. This book, a joint publication with Houghton-Mifflin, is an outgrowth of the USDA Conference on Rural Reading and reproduces some of the papers delivered there. It will help busy people to find time to read, to make wise selections of books and to enjoy literature.

ZOOGEOGRAPHY OF THE SEA—Sven Ekman, translated by Elizabeth Palmer—*Sidgwick and Jackson (Macmillan)*, 417 p., illus., \$6.50. Showing the distribution of marine animals and the interaction between the physiology of the various creatures with their external environment. Considerably revised for the English edition.

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