

# 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 ALKALOIDS—K. W. Bentley—*Interscience*, 237 p., illus., \$4. Textbook for the undergraduate student.

ANCIENT NOVAE AND METEOR SHOWERS—Hsi Tse-tung, Susumu Imoto and Ichiro Hasegawa—*Govt. Printing Office*, Smithsonian Contributions to Astrophysics, Vol. 2, No. 6, 34 p., illus., paper, 30¢.

ANTARCTIC PROGRAM OF THE U. S. NATIONAL COMMITTEE OF THE INTERNATIONAL GEOPHYSICAL YEAR, 1957-58—Joseph Kaplan, Chairman—*Nat'l Academy of Sciences-Nat'l Research Council*, Pub. 553, 58 p., illus., paper, \$1. With maps and description of programs and layouts of Antarctic stations.

THE ARCTIC TUNDRA—Delia Goetz—*Morrow*, 64 p., illus. by Louis Darling, \$2.50. Of the weather, plant and animal life, and the people who live north of the tree line.

THE BALANCE SHEET ON EDUCATION: Europe, Russia, United States—Admiral Hyman G. Rickover—*Thomas Alva Edison Foundation*, 31 p., paper, single copies free upon request direct to publisher, 8 West 40th St., New York 18, N. Y. Russian education is now "utility model" of European education according to the author.

BASIC NUTRITION—E. W. McHenry—*Lippincott*, 389 p., illus., \$6. A textbook for medical students on the scientific and practical aspects of nutrition.

BOUNDARY LAYER EFFECTS IN AERODYNAMICS—L. Howarth and others—*Philosophical Lib.*, 396 p., illus., \$12. Proceedings of a symposium held at the British National Physical Laboratory in 1955.

BRIDGES AND THEIR BUILDERS—David B. Steinman and Sara Ruth Watson—*Dover*, 401 p., illus., paper, \$1.95. Revised edition of book published in 1941.

CANADIAN RESOURCES: PART I, Alberta, British Columbia, Manitoba, Saskatchewan—*Western Resources Handbook (Stanford Research Inst.)*, unpagged, illus., paper, \$10. Statistical information for quick reference.

CAREERS IN BIOCHEMISTRY: Training, Scholarships, Fellowships and Employment Possibilities

—Juvenal L. Angel—*World Trade*, Monograph 48, 26 p., illus., \$1.

CAVITATION IN HYDRODYNAMICS—P. Eisenberg and others—*Philosophical Lib.*, 424 p., illus., \$15. First international symposium held at the National Physical Laboratory, England, in 1955.

CHEMISTRY OF STEROIDS—Charles W. Shoppee—*Academic*, 314 p., illus., \$9. Presents structural investigations of sex hormones, adrenocortical hormones, the cardiac glycosides, and the saponinins.

DIRECTORY OF GEOLOGICAL MATERIAL IN NORTH AMERICA—J. V. Howell and A. I. Levorsen, rev. by Robert H. Dott and Jane Weaver Wilds—*Am. Geological Inst.*, NAS-NRC Pub. No. 556, 2nd ed., 208 p., \$3.

ELEMENTARY QUANTITATIVE ANALYSIS—Harold F. Walton—*Prentice-Hall*, 342 p., illus., \$5.75. Intended for a one-semester course.

EXPERIMENTS WITH LIGHT—Nelson F. Beeler and Franklyn M. Branley—*Crowell*, 143 p., illus. by Anne Marie Jauss, \$2.75. Explains what we know about light and how we obtained the information, presents experiments to test the facts using inexpensive materials.

THE FOUNDATIONS OF LIFE SCIENCE—Mark Graubard—*Van Nostrand*, 627 p., illus., \$6.50. To serve as a biological science textbook in a college course of general science.

GAS TURBINE MATERIALS: A Survey of High-Temperature Materials and Their Application to the Gas Turbine—G. Lucas and J. F. Pollock—*Macmillan*, 163 p., illus., \$5.75. On the manufacture, properties and use of special materials for gas turbines.

THE HARVEY LECTURES: Delivered Under the Auspices of the Harvey Society of New York, 1956-1957—T. F. Gallagher and others—*Academic*, 312 p., illus., \$7.50. Covering aspects of medical science.

HIGHWAY RESEARCH BOARD, PROCEEDINGS OF THE THIRTY-SIXTH ANNUAL MEETING—Fred Burggraf, Elmer M. Ward and Herbert P. Orland, Eds.—*Highway Research Board*, 834 p., illus., \$10. Conference held January 1957.

AN INTRODUCTION TO SCALE COORDINATE PHYSICS: An Introduction to the Formalization of the Macro Operational Point of View—William Bender—*Burgess*, 340 p., illus., \$7.50. Proposes alternative scheme of comprehension of quantum empirics.

LANDSLIDES AND ENGINEERING PRACTICE—Edwin B. Eckel, Ed.—*Highway Research Board*, Special Report 29, 232 p., illus., \$6. Prepared by Committee on Landslide Investigations.

LECTURES ON NUCLEAR THEORY—C. Landau and Ya. Smorodinsky—*Consultants Bureau*, 82 p., illus., paper, \$15. Original text published in Russian by State Technical-Theoretical Literature Press, Moscow, 1955.

LITERATURE OF AGRICULTURAL RESEARCH—J. Richard Blanchard and Harald Ostvold—*Univ.*

## MAKE MONEY WRITING

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of Calif. Press, 231 p., \$5. Quantity of publications and inadequacy of indexes and bibliographies in this field make this annotated bibliography a welcome contribution.

A MANUAL OF PAPER CHROMATOGRAPHY AND PAPER ELECTROPHORESIS—Richard J. Block, Emmett L. Durrum and Gunter Zweig—*Academic*, 2nd ed., 710 p., illus., \$12.80. A practical manual of tried and proved procedures, with classified bibliography of over 1800 articles.

MEN AGAINST THE FROZEN NORTH—Ritchie Calder—*Macmillan*, 279 p., illus., \$3.75. By airplane, dogsled and snow-tractor the author explores the Arctic to see what scientists can do to make this region habitable.

NATURALLY OCCURRING QUINONES—R. H. Thomson—*Academic*, 302 p., illus., \$9. Comprehensive account of quinone pigments which form the largest group of natural coloring matters.

THE NAVAL ARCHITECTURE OF SMALL CRAFT—D. Phillips-Birt—*Philosophical Lib.*, 351 p., illus., \$15. Concerned with many types of working boats and yachts of about 120 feet in length or less.

PHYSICAL METHODS OF PHYSIOLOGY—W. T. Cotton—*Philosophical Lib.*, 375 p., illus., \$10. Presents wide variety of physical experimental techniques and theoretical treatments which have been applied to physiological investigations.

POWER REACTOR TECHNOLOGY, Vol. I, No. 1—General Nuclear Engineering Corporation for U. S. Atomic Energy Commission—*Govt. Printing Office*, 41 p., illus., paper, single copies 55¢, \$2 per year. New quarterly in AEC's Technical Progress Review Series.

PROCESS ENGINEERING IN THE FOOD INDUSTRIES—R. J. Clarke—*Philosophical Lib.*, 355 p., illus., \$10. For those responsible for the management of plant installations.

THE RIVER IN THE SEA—Hans Leip, translated from the German by H. A. Piehler and K. Kirkness—*Putnam*, 223 p., illus., \$3.75. Follows the course of the Gulf Stream.

RUSSIAN-ENGLISH GLOSSARY OF SOLID STATE PHYSICS—I. Emin, Ed.—*Consultants Bureau*, 90 p., paper, \$10. Specialized terms in the fields of crystallography, physics of metals, ferromagnetism and semi-conductors.

SCIENCE IN YOUR OWN BACK YARD—Elizabeth K. Cooper—*Harcourt*, 192 p., illus., \$3. Based on author's own experience with her son and his friends, this teacher produced a stimulating book for the young.

SCIENCE PROBLEMS: For Junior High School, Vols. 1, 2, and 3—Wilbur L. Beauchamp, John C. Mayfield and Joe Young West—*Scott*, Vol. 1, 384 p., illus., \$2.88; vol. 2, 448 p., illus., \$3.04; vol. 3, 512 p., illus., \$3.20. Vols. 1 and 2 also available in teacher's edition.

STUDY ABROAD: International Handbook, Fellowships, Scholarships, Educational Exchange, 1957-1958—*UNESCO*, 9th ed., 836 p., paper, \$2.50. Lists over 75,000 opportunities of financial assistance for international educational travel. First time awards offered by U.S.S.R.

TEACHING SOIL AND WATER CONSERVATION: A Classroom and Field Guide—Albert B. Foster and Adrian C. Fox—*Soil Conservation Service*, U. S. Dept. of Agric., 30 p., illus., paper, free upon request direct to publisher, Washington 25, D. C. Excellent pamphlet with many drawings and photographs.

THE UNIQUENESS OF THE INDIVIDUAL—P. B. Medawar—*Basic Bks.*, 191 p., illus., \$4. Lectures on the problems of evolution.

THE WORLD OF THE ELECTRON MICROSCOPE—Ralph W. G. Wyckoff—*Yale Univ. Press*, 164 p., illus., \$4. The key to our knowledge of minute objects, such as the polio virus.

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