• 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.

ABACUS ARITHMETIC: How to Perform Some Calculations on the Chinese Abacus—Welton J. Crook—*Pacific Bks*, 69 p., illus., paper, $1.50. Explains step-by-step how to use the abacus.

ACTION OF RADIATION ON TISSUES: An Introduction to Radiotherapy—A. Lacassagne and G. Gricouroff, translated by Clarence C. Lushbaugh and Gretchen R. Riese—*Grune*, 2nd ed., 199 p., illus., $6.25. Extensively revised text for medical students.

THE ADVANCEMENT OF MEDICAL RESEARCH AND EDUCATION THROUGH THE DEPARTMENT OF HEALTH, EDUCATION AND WELFARE—Stanhope Bayne-Jones, Chairman — *Govt. Printing Office* for Office of the Secretary, Dept. of HEW, 82 p., paper, 60¢. Final Report of the Secretary's Consultants on Medical Research and Education.

AGRICULTURAL GEOGRAPHY OF LATIN AMERICA —Wilhelm Anderson and others—*Govt. Printing Office* for Foreign Agricultural Service, U. S. Dept. of Agric., 96 p., maps, paper, 65¢. Graphic report on factors underlying Latin America's agriculture.

AUSTRALIAN EXPLORERS: A Selection from their Writings—G. Blaxland and others, introd. by Kathleen Fitzpatrick—*Oxford Univ. Press*, 503 p., map, $2.50. From the journals of explorers of this "most ancient land," the last refuge of primitive man and marsupial beast, tree fern and archaic palm.

BASIC GENERAL MATHEMATICS—Margaret Joseph and Mildred Keiffer; John R. Mayor, Ed.— *Prentice-Hall*, 458 p., illus., $3.52. A high school course for students not ready for traditional algebra course.

BORNEO PEOPLE — Malcolm MacDonald — *Knopf*, 426 p., illus., $6.50. Son of former British Prime Minister writes of the territory under his administration, the state of Sarawak.

THE CHANGING FACE OF NEW ENGLAND— Betty Flanders Thomson—*Macmillan*, 188 p., $3.75. In layman's language this botanist describes the history of the land's geological change by surveying its plants, animals, forests and rocky physiography.

CHOLESTEROL: Chemistry, Biochemistry, and Pathology—Robert P. Cook, Ed.—*Academic*, 542 p., illus., $15. For scientific workers in the field, it covers representative work, includes references and appendix of laboratory methods.

DATA FOR ELEMENTARY-PARTICLE PHYSICS— Walter H. Barkas and Arthur H. Rosenfeld— *Univ. of Calif. (Office of Technical Services)*, 21 p., paper, 75¢. For students and research workers in high-energy physics.

DISPERSION OF MATERIALS—Rolt Hammond— *Philosophical Lib.*, 230 p., illus., $10. For students as well as for experienced chemical engineers.

THE EARTH AND ITS GRAVITY FIELD—W. A. Heiskanen and F. A. Vening Meinesz—*McGraw-Hill*, 470 p., illus., $12.50. Presents new conclusions about the way the earth tends toward equilibrium, and about the character and size of deviations from this equilibrium.

ELECTRONICS MADE SIMPLE—Henry Jacobowitz—*Garden City Bks*, 192 p., illus., paper, $1. Explains basic principles, electron tubes and transistors, electronic circuits, radio, radar and television.

EXPLORING THE SUN—Roy A. Gallant—*Garden City Bks*, 57 p., illus. by Lee J. Ames, $2.50. A children's science book telling dramatically, yet simply, what we know about the sun and what it does for mankind.

FROM THE ENDS OF THE EARTH: An Anthology of Polar Writings—Augustine Courtauld, Ed.— *Oxford Univ. Press*, 423 p., $4.75. About voyages to the Polar regions, from the ancients to the scientific explorers of our age.

GOOD NEWS FOR LATER LIFE—*N. Y. State Joint Legislative Committee on Problems of the Aging*, introduction by Thomas C. Desmond, 169 p., illus., single copies free upon request direct to Senator T. C. Desmond, 94 Broadway, Newburgh, N. Y.

HOOFS, CLAWS, AND ANTLERS: The Story of American Big-game Animals—Harold McCracken—*Garden City Bks*, 56 p., illus. by Lee J. Ames, $2.50. Acquaints the young reader with animals of the American wilderness.

HOW TO SOLVE CHEMISTRY PROBLEMS—C. H. Sorum—*Prentice-Hall*, 2nd ed., 184 p., paper, $2.25. A self-teaching review of first-year college chemistry principles, with problems, solutions, and answers.

INTERNATIONAL CONFERENCE ON THE NEUTRON INTERACTIONS WITH THE NUCLEUS: Proceedings— I. I. Rabi and others—*Atomic Energy Commission (Office of Technical Services)*, 279 p., illus., paper, $3.25. Conference held at Columbia University, New York, Sept. 9-13, 1957.

MAN IN THE PRIMITIVE WORLD: An Introduction to Anthropology—E. Adamson Hoebel— *McGraw-Hill*, 2nd ed., 678 p., illus., $9. Traces human development through evolution and culture.

MECHANICAL RESOLUTION OF LINGUISTIC PROBLEMS—Andrew D. Booth, L. Brandwood and J. P. Cleave—*Academic*, 306 p., illus., $9.80. Reports on results of the use of digital calculators for translating one language into. another.

MODERN CHEMICAL PROCESSES: A Series of Articles Describing Chemical Manufacturing Plants—Walter J. Murphy, and others, Eds.— *Reinhold*, 154 p., illus., $5. By the editors of *Industrial and Engineering Chemistry* together with the technical staffs of the cooperating organizations.

OSCILLOSCOPE TECHNIQUE — Alfred Haas— *Gernsback*, 224 p., illus., paper, $2.90, hard cover, $4.60. The oscilloscope, a device for qualitative evaluation, allows us to "see electric waves."

PAPER: The Fifth Wonder—John H. Ainsworth—*Thomas Pub. Co.*, 180 p., illus., $4. Deals with specific phases of pulp and paper manufacture in popular digest form.

PARTICULATE EMISSION: Proceedings of the Symposium on Air Pollution held October 21, 1957, at The Franklin Institute in Philadelphia— F. E. DeMartini and others—*Journal of the Franklin Institute*, Monograph No. 4, 105 p., illus., paper, $3.

PREVENTIVE TECHNIQUES OF REHABILITATION FOR HEMIPLEGIC PATIENTS—Nila Kirkpatrick Covalt—*National Soc. for Crippled Children and Adults*, 16 p., illus., 25¢. Reprint from GP, March, 1958.

PROCEEDINGS OF THE INDIANA ACADEMY OF SCIENCE—Richard A. Laubengayer, Ed.—*Indiana State Lib.*, 331 p., illus., $3. Includes 7-page report of Indiana Junior Academy of Science.

PSYCHIATRY AND RELIGIOUS EXPERIENCE—

Louis Linn and Leo W. Schwarz—*Random House*, 307 p., $4.95. Of help to the religious leader in understanding the psychological problems of his congregation.

RELATIVITY FOR THE LAYMAN: A Simplified Account of the History, Theory, and Proofs of Relativity—James A. Coleman—*New Am. Lib.*, 127 p., illus. by the author, paper, 50¢. For the general reader.

ROCKS AND RAIN AND THE RAYS OF THE SUN— William Fox—*Walck*, 90 p., illus., $3. Takes young readers into the oldest factory there is— nature at work.

SEPARATION AND PURIFICATION OF MATERIALS —Rolt Hammond—*Philosophical Lib.*, 327 p., illus., $10. Covers solid-solid, solid-liquid, solid gas, liquid-liquid and gas-gas systems, with chapter on separation and purification in nuclear engineering.

SINGING STRINGS—Larry Kettelkamp—*Morrow*, 48 p., illus. with drawings by author, $2.75. Discusses the harps, the piano family, the guitars, and the violin family. Tells how to make simplified versions of the instruments. For young and old.

SPUTNIK INTO SPACE—M. Vassiliev with V. V. Dobronravov, translated from Italian by Mervyn Savill, introduction by William Beller— *Dial Press*, 181 p., illus., $3.75. A Soviet journalist, under the direct supervision of Soviet Academy members, reports about the present and future of Russian rockets, missiles and satellites.

A STROKE NEEDN'T STRIKE YOU OUT—Walter Lewis Reisner—*National Soc. for Crippled Children and Adults*, 16 p., illus., paper, 25¢. Directions to help rehabilitation of hemiplegic.

THE TARANTULA—William J. Baerg—*Univ. of Kan. Press*, 88 p., illus., $3. The tarantula's story, from the egg stage to maturity and death.

TOPOLOGICAL ANALYSIS—Gordon Thomas Whyburn—*Princeton Univ. Press*, 119 p., $4. Centered largely around results obtainable with the aid of the circulation index of a mapping and properties resulting from openness of a mapping.

A TREASURY OF SCIENCE—Harlow Shapley, Samuel Rapport and Helen Wright, Eds., introduction by Dr. Shapley—*Harper*, 4th rev. ed., 776 p., $6.95. New material on Radio Astronomy, Measurement of Geologic Time, The Origin of Life and Man's Ancestral Past. New sections on Rocketry and Space Travel, and Atomic Energy.

Science News Letter, August 23, 1958

Do You Know?

The Polygon of Drought is a vast *arid area* which sprawls over five states and 193,000 square miles in northeastern Brazil.

Glaciers are receding in the region of the Scandinavian ice cap at a rate of several hundred yards each year.

Stenosis of heart valve openings is a common form of heart disease which may be inborn or due to repeated attacks of rheumatic fever.

Polyethylene, a plastic material, is made of ethylene gas which is a component of natural gas, or it can be derived from petroleum in refining.

Monkeys develop *ulcers* when they take part in executive-type experiments.