

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.

ALCOHOLISM: Basic Aspects and Treatment—Harold E. Himwich, Ed.—*American Association for the Advancement of Science*, Publication No. 47, 212 p., graphs, \$5.75. Reporting a symposium held under the auspices of the AAAS and organized by the editor for the American Psychiatric Association and a representative of the American Physiological Society.

ANESTHESIOLOGY AND RELATED PROBLEMS—C. R. Stephen and others—*New York Academy of Sciences*, Annals, Volume 66, Art. 4, 179 p., illus., paper, \$4.00. The proportion of patients

over 60 undergoing surgery has risen from 10% in 1935 to 25% in 1950.

THE ANVIL OF CIVILIZATION—Leonard Cottrell—*New American Library*, 256 p., illus., paper, 50 cents. The civilizations which arose in this area have given birth to the three principal components of our Western culture: Greek thought, Roman law and the Christian religion.

AUTOMATIC CODING: Proceedings of the Symposium Held January 24-25, 1957, at the Franklin Institute in Philadelphia—John S. Burlew and others—*Franklin Institute*, Monograph No. 3, 118 p., illus., paper, \$3.00. Discussing the problems of computers and the use of computer mechanisms for special purposes other than computation.

BATTLE FOR THE MIND—William Sargant—*Doubleday*, 263 p., illus., \$4.50. An English psychiatrist discusses methods of influencing the human mind and emotions, from brain washing to revival meetings, snake-handling sessions of a religious cult, and rock-and-roll.

BOTANY—Carl L. Wilson and Walter E. Loomis with line drawings by Hannah T. Croasdale—*Dryden*, Rev. ed., 528 p., illus., \$7.25. All the chapters have been revised in this two-semester text for the general student.

THE CHEMICAL FORMULARY: A Collection of Valuable, Timely, Practical Commercial Formulae and Recipes for Making Thousands of Products in Many Fields of Industry, Volume X—H. Bennett, Ed.-in-Chief—*Chemical Pub. Co.*, 392 p., \$8.00. For chemists and non-chemical executives.

CHILDHOOD AND ADOLESCENCE: A Psychology of the Growing Person—L. Joseph Stone and Joseph Church—*Random House*, 456 p., illus., \$6.50. A textbook for students of child study or child psychology, and a readable book for parents and those who deal professionally with children.

CLINICAL TOXICOLOGY OF COMMERCIAL PRODUCTS: Acute Poisoning (Home and Farm)—Marion N. Gleason, Robert E. Gosselin and Harold C. Hodge—*Williams & Wilkins*, 1160 p., illus., \$16.00. Making readily available information on the toxic ingredients of over 15,000 trade-named products in the home and on the farm.

CONSERVATION FOUNDATION ANNUAL REPORT FOR THE YEAR 1956—Fairfield Osborn, president—*Conservation Foundation*, 28 p., illus., paper, free upon request direct to publisher, 30 East 40th Street, New York 16, N. Y. Showing this foundation is interested in the conservation of human resources such as talent for science, education, and spiritual health.

CYTOLOGY AND CYTOGENETICS—Carl P. Swanson—*Prentice-Hall*, 596 p., illus., \$13.35. Intended to convey to the reader the exciting and stimulating discoveries in the field that have come to light in recent years.

DENTAL PATTERNS IN MICE OF THE GENUS PEROMYSCUS—Emmet T. Hooper—*Museum of Zoology, University of Michigan*, 59 p., illus., paper, 75 cents. An attempt to analyze, describe and assess the taxonomic significance of some of the variations in the molar teeth of this rodent.

DEVELOPMENT, GROWTH, AND STATE OF THE ATOMIC ENERGY INDUSTRY: Hearings Before the Joint Committee on Atomic Energy, Congress of the United States, 1957—*Govt. Printing Office*, Part 1, 417 p., illus., paper, \$1.25, Part 2, 373 p., graphs, paper \$1.00.

EASTER ISLAND: A Stone-Age Civilization of the Pacific—Alfred Metraux, translated from the French by Michael Bullock—*Oxford University Press*, 249 p., illus., \$5.00. Describing in non-technical language what scientists were able to learn about the people who erected on a distant, insignificant island, huge monuments worthy of a great nation.

EFFECT OF DE-ICING CHLORIDES ON VEHICLES AND PAVEMENTS—George J. Verbeck and others—*Highway Research Board*, Bulletin 150, 31 p., graphs, paper, 75 cents. Ice on highways is generally thawed in winter by the use of rock salt. This publication tells what the salt does to the finish of your car and to the pavement on which it is used.

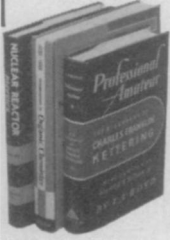
ELECTRICITY AND MAGNETISM—J. Newton—*Philosophical Library*, 613 p., illus., \$10.00. This is a relatively new scientific study, the author points out; most of the experimental facts have been discovered and modern theories developed during the last 200 years.

EXPLORING WITH YOUR MICROSCOPE—Julian D. Corrington—*McGraw-Hill*, 229 p., illus., \$4.95. For the person who is interested in microscopy as a hobby.

EXTINCT LANGUAGES—Johannes Friedrich—*Philosophical Library*, 182 p., illus., \$5.00. Telling of the decipherment of ancient writings.

FORMS AND PATTERNS IN NATURE—Wolf Strache, Ed.—*Pantheon*, 88 plates, \$7.50. Photographs of breathtaking beauty show the designs

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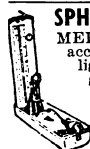
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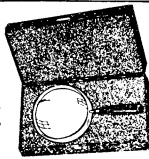
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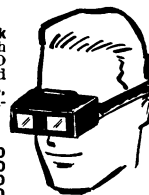
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of nature. Most were taken by the editor himself with his Leica camera.

GLACIAL AND PLEISTOCENE GEOLOGY—Richard Foster Flint—*Wiley*, 553 p., illus., \$12.50. Emphasizing the North American Pleistocene and presenting more detailed consideration of animals and plants than was possible earlier.

ILLINOIS JOURNAL OF MATHEMATICS: Vol. 1, No. 1—Reinhold Baer and others, Eds.—*University of Illinois*, quarterly, 113 p., paper, \$3.00 per copy, \$9.00 per year. Containing original research papers in pure and applied mathematics.

MATHEMATICS AT WORK: Practical Applications of Arithmetic, Algebra, Geometry, Trigonometry and Logarithms to the Step-By-Step Solutions of Mechanical Problems With Formulas Commonly Used in Engineering Practice, Standard Reference Tables and a Concise Review of Basic Mathematical Principles—Holbrook L. Horton—*Industrial Press*, 2d ed., 728 p., illus., \$7.50. A working manual.

MEDICAL MYCOLOGY: Laboratory Manual—E. S. Beneke—*Burgess Publishing Co.*, 186 p., illus., paper, \$4.00. Intended for the training of laboratory technicians and microbiologists.

MERCURY AND ITS COMPOUNDS—Cecil V. King and others—*New York Academy of Sciences, Annals*, Volume 65, Art. 5, 296 p., illus., paper, \$3.50. It is estimated mercury and its compounds have more than 3,000 uses.

MICROBIAL ECOLOGY: Seventh Symposium of the Society for General Microbiology Held at the Royal Institution, London, April 1957—C. J. Shepherd and others—*Cambridge University Press*, 388 p., illus., \$6.50. Discussing the selective action of environmental factors on microbial populations.

MODERN SCIENCE AND THE NATURE OF LIFE—William S. Beck—*Harcourt, Brace*, 302 p., \$5.75. Nothing, the author states in the "ersatz mishmash" of science fiction can compete with the truths of real science either for human drama and suspense or for intellectual stimulation. This volume is about modern biology.

PARTHENOGENESIS AND POLYPOIDY IN MAMMALIAN DEVELOPMENT—R. A. Beatty—*Cambridge University Press*, Cambridge Monographs in Experimental Biology No. 7, 132 p., illus., \$3.00. Discussing two variants to normal development, one the development of an embryo from an unfertilized egg and the other the condition in which whole sets of chromosomes may be duplicated, missing or incomplete.

THE PHARMACOLOGY OF PSYCHOTOMIMETIC AND PSYCHOTHERAPEUTIC DRUGS—Seymour S. Kety and others—*New York Academy of Sciences, Annals*, Volume 66, Art. 3, 424 p., illus., paper, \$5.00. Dealing with the effects of the tranquilizers and with drugs that produce symptoms like those of mental illnesses.

PHYSICAL SCIENCE FOR LIBERAL ARTS STUDENTS—Hugo N. Swenson and J. Edmund Woods—*Wiley*, 333 p., illus., \$6.50. Giving the student glimpses of mathematics, astronomy, physics and chemistry, but emphasizing especially the methods used in the sciences.

PLANT PROTECTION CONFERENCE 1956: Proceedings of the Second International Conference at Fernhurst Research Station, England—*Academic*, 315 p., illus., \$9.00. Discussing the use of genetics and systemic poisons as well as the application of external insecticides and fungicides.

PLASTIC DESIGN OF PORTAL FRAMES—Jacques Heyman—*Cambridge University Press*, 104 p., illus., \$2.00. On the engineering problems of steel-framed buildings.

THE RAINBOW BOOK OF NATURE—Donald

Culross Peattie, illustrated by Rudolf Freund—*World Publishing Co.*, 319 p., illus., \$4.95. A beautiful book to delight boys and girls (and their parents).

SECOND TISSUE HOMOTRANSPLANTATION CONFERENCE—John Marquis Converse and others—*New York Academy of Sciences, Annals*, Volume 64, Art. 5, 339 p., illus., paper, \$4.50. The emphasis at this meeting was placed on the use of embryonic fetal and neonatal donor tissues.

SELECTED PAPERS IN STATISTICS AND PROBABILITY—Abraham Wald, edited for the Institute of Mathematical Statistics by T. W. Anderson and others—*Stanford University Press*, 702 p., \$10.00. A re-issue of this important collection first published in 1955 and quickly exhausted.

A STUDY OF PERMANENT MAGNETS OF THE BARIUM FERRITE TYPE—K. J. Sixtus—*Office of Technical Services*, 46 p., illus., paper, \$1.50.

TEACHING ABOUT CANCER: A Guide to Source Materials and Information Prepared to Help Secondary School Administrators and Teachers in Developing Instruction on Cancer Suitable to Their Curriculum Requirements—Gordon E. Van Hooft—*American Cancer Society*, 48 p., paper, free upon request direct to your local division of the American Cancer Society.

TEACHING SCIENCE IN THE SECONDARY SCHOOL—R. Will Burnett—*Rinehart*, 382 p., illus., \$5.25. One section of this text is devoted to methods of meeting the needs of students gifted in science and describes ways in which they can give play to their abilities with special projects and activities such as the Science Clubs and Science Fairs.

TECHNOLOGY AND SOCIAL CHANGE—Francis R. Allen and others—*Appleton-Century-Crofts*, 529 p., illus., \$7.00. The impact of technology, and especially nuclear radiation, on social change has become crucial, the authors believe.

THE TEMPLE OF JERUSALEM—André Parrot—*Philosophical Library*, Studies in Biblical Archaeology No. 5, 112 p., illus., \$2.75. The curator-in-chief of the French National Museums give us this description pieced together from archaeological finds and ancient writings of the succession of buildings in Jerusalem called "the Temple."

WORKING WITH CHILDREN IN SCIENCE—Clark Hubler—*Houghton Mifflin*, 425 p., illus., \$5.50. A book for teachers and prospective teachers in elementary and junior high schools to help them to answer the questions of children and guide their experiments. It should be useful, the author says, in the kindergarten and even nursery school.

Science News Letter, May 25, 1957

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