

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 AMERICAN PETROLEUM INDUSTRY: The Age of Illumination 1859-1899—Harold F. Williamson and Arnold R. Daum—*Northwestern Univ. Press*, 864 p., illus., \$7.50. Traces the growth of the industry from 1859 until the end of the nineteenth century, when the gasoline age began.

ANIMAL HABITS—George F. Mason—*Morrow*, 93 p., illus. by author, \$2.50. Interprets animal behavior for the general reader.

ATLAS OF HUMAN ANATOMY—Franz Frohse, Max Brodel and Leon Schlossberg—*Barnes*, 5th ed., 180 p., illus., \$4.50, paper \$2.95. Pocket size anatomy with many color charts and illustrations.

CRANBROOK INSTITUTE OF SCIENCE: A History of its Founding and First Twenty-Five Years—Lee A. White, Robert T. Hatt and others—*Cranbrook Inst. of Science*, 148 p., illus., \$5.

THE FLIGHT OF THE SMALL WORLD—Arnold Eiloart and Peter Elstob—*Norton*, 255 p., illus., \$4.50. Describes balloon flight by four Britishers across the Atlantic in 1958.

FOOD, AMERICA'S BIGGEST BUSINESS—Pauline Arnold and Percival White—*Holiday*, 338 p., illus. by Tom Funk, \$3.95. Surveys the development of the American food industry.

THE LIBERAL ARTS as Viewed by Faculty Members in Professional Schools—Paul L.

Dressel, Lewis B. Mayhew and Earl J. McGrath—*Teachers College for Institute of Higher Education*, 68 p., paper, \$1.50. Analysis of education in nine types of professional schools.

MATHEMATICS AND THE PHYSICAL WORLD—Morris Kline—*Crowell*, 482 p., illus., \$6. Presents the role of mathematics in the sciences, and shows how mathematics helps man explore regions his senses cannot perceive.

THE NATIONAL VITAMIN FOUNDATION: Annual Report 1958—Robert S. Goodhart, Scientific Dir.—*The Nat'l Vitamin Foundation*, 107 p., paper, free upon request direct to publisher, 149 E. 78th Street, New York 21, N. Y. Reports on scientific research in 1958.

NATURE AND MAN'S FATE—Garrett Hardin—*Rinehart*, 375 p., illus., \$6. An introduction to the principles of evolution, showing its implications for the future. A biologist-philosopher's views on atomic radiation, political inequality, defective inheritance, eugenics and genetic waste. Includes bibliography.

THE NEUTRON STORY—Donald J. Hughes—*Doubleday*, 158 p., illus., paper, 95¢. On the discovery and nature of the neutron inside an atom's nucleus, about radioisotopes, atomic patterns and the chain reaction.

NEW PATHWAYS OF SCIENCE—Sir Arthur Edington—*Univ. of Mich. Press*, 333 p., paper, \$1.95. Contains lectures delivered at Cornell University in 1934.

THE OPEN SEA, ITS NATURAL HISTORY, Part II: Fish & Fisheries, with chapters on Whales, Turtles and Animals of the Sea Floor—Sir Alister Hardy—*Houghton*, 322 p., illus., \$7.50. On the history and habits of fish in general, on life on the ocean floor, fish parasites, herring, haddock and the fishing industry.

ORGANIZING PEACE IN THE NUCLEAR AGE—Commission to Study the Organization of Peace—Arthur N. Holcombe, Chmn.—*N. Y. Univ. Press*, 245 p., \$3.75. This Eleventh Report of the Commission deals with the general problem of strengthening the United Nations.

PATENTS & INVENTIONS: An Information Aid for Inventors—U. S. Dept. of Commerce, Patent Office—*Gott. Print. Off.*, 25 p., paper, 15¢. Summarizes the basic steps of patenting and answers frequently asked questions.

PLANETARIA AND THEIR USE FOR EDUCATION—Miriam Jagger, Ed.—*Cranbrook Inst. of Science*, 200 p., illus., paper, \$3.50. Papers from a symposium held September 7-10, 1958, discussing planetarium programs, equipment and techniques.

THE RULE OF NINE: Simplified and Ex-

panded—William Wallace, Jr.—*U. S. Naval Institute*, 27 p., paper, 60¢. An easy, speedy way to check addition, subtraction, multiplication and division.

THE RUN—John Hay—*Doubleday*, 189 p., illus. by David Grose, \$3.95. Records the annual migration of alewives (members of the herring family) from the ocean to their inland breeding grounds. The author directs a children's nature museum on Cape Cod.

A SELECTED LIST OF CAREER GUIDANCE PUBLICATIONS—Hilary J. Deason, asst'd by Steven E. Bolt—*Am. Ass'n for the Advancement of Science*, 12 p., paper, single copies free upon request direct to publisher, 1515 Mass. Ave., N.W., Washington 5, D. C. Compiled for the various fields of pure and applied sciences.

THE ST. LAWRENCE—William Toye—*Wack, H. Z.*, 296 p., illus. by Leo Rampen, \$4.50. Historical account of the river and the settlers along it from 1534 to our times.

A SHORT HISTORY OF DENTISTRY—Maurice Smith—*Roy Pubs.*, 120 p., illus., \$3. Survey of dentistry from 5000 B.C. to the functioning of the British Health Service of today.

SNOW SURVEYS: Defenders Against Flood and Drought—C. B. Colby—*Coward-McCann*, 48 p., illus., \$2. Depicts in photographs and words the story of the U. S. Department of Agriculture's snow survey, which helps anticipate floods and drought.

SOVIET COMMITMENT TO EDUCATION: Report of the First Official U. S. Education Mission to the U.S.S.R., with an Analysis of Recent Educational Reforms—*Office of Education (Govt. Print. Off.)*, 135 p., map, paper, 70¢. Survey of the Soviet educational system, from nurseries to the Academy of Sciences.

SPACE HANDBOOK: Astronautics and its Applications—Robert W. Buchheim and Staff of Rand Corp.—*Random House*, 330 p., illus., \$3.95. Updated edition of the space handbook originally prepared for the House Committee on Astronautics and Space Exploration early in 1959.

THIS SCULPTURED EARTH: The Landscape of America—John A. Shimer—*Columbia Univ. Press*, 255 p., illus., \$7.50. Tells the geologic story of the varied landscapes of the United States, and explains the characteristic geologic meaning of each type of landscape. For the general reader.

THE VIRUSES, BIOCHEMICAL, BIOLOGICAL, AND BIOPHYSICAL PROPERTIES, Vol. 2: Plant and Bacterial Viruses—F. M. Burnet and W. M. Stanley, Eds.—*Academic*, 408 p., illus., \$13. Latest research findings on the process of infection and virus synthesis, on the biochemistry of plant viruses, mutations, bacteriophages and lysogeny.

SOVIET PHYSICS: Doklady, Vol. 3, No. 5. A Translation of the "Physics Sections" of the Proceedings of the Academy of Sciences of the USSR (Russian Original Vol. 122, Nos. 1-6)—Vladimir Rojansky, Ed.—*Am. Inst. of Physics*, 167 p., illus., paper, \$7, subscription per year (6 issues) starting with Vol. 1, No. 1, \$35, libraries of non-profit academic institutions \$15.

ZINC: The Science and Technology of the Metal, its Alloys and Compounds—C. H. Mathewson, Ed., chapters by specialists—*Reinhold*, 721 p., illus., \$19.50. Definitive monograph on the metallurgy, chemistry, extraction and uses of zinc, prepared in cooperation with the American Zinc Institute.

YOUR CAREER IN ELECTRONICS 1960—David A. Findlay, Ed.—*Ziff-Davis*, 130 p., illus., paper, \$1. Popular Electronics' career guide, tells how to test your electronics aptitude, what careers in electronics have to offer, and how to prepare for them.

Science News Letter, September 26, 1959

100 Indoor Plants

THEIR CARE AND CULTIVATION

By A. C. Muller-Ilderda. This beautiful, information-packed volume gives detailed instructions for the care and cultivation of 100 different indoor plants. For each variety we have first a vivid photograph of a typical growing specimen. Then follows an account of the character and habits of the plant together with complete directions for successfully growing and tending it. Containers, air, light, temperature, watering, soil, feeding, propagating, etc.—all are dealt with fully. Not least, the author-expert, writing from practical knowledge and long experience, introduces many little-known yet fascinating plants. "One of the best indoor plant books we've seen . . . The author covers all; the description of the plant, the climactic conditions it likes, any special points about its watering and maintenance and the best way of propagating it."—*BBC Home Crown*.

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