

Books of the Week

For the editorial information of our readers, books received for review 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.

ABC'S OF ULTRASONICS—Alan Andrews—*Sams (Bobbs)*, 96 p., illus., paper, \$1.95. About industrial applications of ultrasonic waves.

AKHMANOVA RUSSIAN DICTIONARY: Russian-English and English-Russian—O. S. Akhmanova—*Bantam Bks*, 820 p., paper, 95¢. Pocket-size and up-to-date.

ALEXANDER WILSON: Naturalist and Pioneer—Robert Cantwell—*Lippincott*, 319 p., illus., \$15. Biography of the first naturalist-painter to study American birds in their habitats, with reproductions of his paintings.

ANTARCTIC COMMAND—Finn Ronne—*Bobbs*, 271 p., photographs, \$5. Story of the IGY expeditionary force at isolated Ellsworth Station, told by their commander.

ANTIMICROBIAL AGENTS ANNUAL, 1960—Peter Gray, Benjamin Tabenkin and S. G. Bradley, Eds.—*Plenum Press*, 670 p., illus., \$8.50. Proceedings of 1960 Conference, sponsored by the Society for Industrial Microbiology.

ARTIFICIAL EARTH SATELLITES, Vol. 6—L. V. Kurnosova, Ed., transl. from Russian—*Plenum Press*, 170 p., illus., \$7.50. Translation of series on Soviet space research published in Moscow by the USSR Academy of Sciences in 1961.

ASTRONOMICAL SPECTROSCOPY—A. D. Thack-

eray—*Macmillan*, 256 p., illus., \$3.95. Review of theory and practice of spectroscopy and the fundamental facts about the universe it helped to establish.

AUSTRIA—Eugene Susini, transl. from French by Mary Fitton—*Oxford Univ. Press*, 152 p., 274 photographs, \$12.50. Handsome volume about Austria's eight provinces.

THE BASIS OF SCIENTIFIC THINKING—Samuel Reiss—*Philosophical Lib.*, 262 p., \$4.75. Develops author's "psycho-logic" approach concerned with the logical aspect of unconsciously formulated assumptions that underlie conscious thinking.

THE BOY'S BOOK OF ROCKS AND FOSSILS—I. O. Evans—*Roy Pubs.*, 144 p., photographs, diagrs., \$3.75. Boy's introduction to geology.

CLOTHES AND CLOTH: America's Apparel Business—Pauline Arnold and Percival White—*Holiday House*, 355 p., illus., \$4.50. Focuses on today's textile and apparel industries.

COLOURED KEY TO THE WILDFOWL OF THE WORLD—Peter Scott—*Scribner*, rev. ed., 91 p., illus. by author, \$3.50. Compact fieldbook for identification of 247 kinds of duck, goose or swan.

COMMON NATIVE ANIMALS: Finding, Identifying, Keeping, Studying—M. F. Vessel and E. J. Harrington—*Chandler Pub.*, 175 p., illus. by Dorothy Thurman, \$2.95. Brief life data on the more commonly collected wild animals.

COMPUTERS: From Sand Table to Electronic Brain—Alan Vorwald and Frank Clark—*Whittlesey House*, 176 p., illus. by Frank Aloise, \$3.50. Tells young people how the computer was developed and how it works.

CRYOGENIC MATERIALS DATA HANDBOOK—T. F. Durham, R. M. McClintock and R. P. Reed—*NBS (OTS)*, rev. ed., 555 p., paper, graphs, \$7. Basic handbook, gives lab test data on 22 properties of metals, alloys and non-metallic materials at cryogenic temperatures, 1940 through 1959.

CYTOLOGY—G. B. Wilson and John H. Morrison—*Reinhold*, 297 p., illus., \$7.50. Introductory course, treats the basic facts, concepts and problems of cellular biology.

DICTIONARY OF TECHNICAL TERMS—Frederic Swing Crispin—*Bruce Pub.*, rev. 9th ed., 454 p., illus., \$5. Definitions of commonly used expressions in technical trades and industry.

ELECTRONIC GAMES & TOYS YOU CAN BUILD—Len Buckwalter—*Sams (Bobbs)*, 128 p., illus., paper, \$2.50. Instructions for electronic projects.

Second Annual Survey of CHILDREN'S SCIENCE BOOKS

A valuable guide for teachers and librarians, this survey assesses science books published for juveniles in 1961. Out of 115 titles considered, 44 were selected, reviewed and evaluated by an expert panel of scientist-writers associated with The American Museum of Natural History.

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Address: *Science Books*

NATURAL HISTORY MAGAZINE
79th St. & Central Park West
New York 24, N. Y.

EXPLORING BEHAVIOR: An Introduction to Psychology—Douglas K. Candland and James F. Campbell—*Basic Bks*, 179 p., illus., \$4.50. Introduces general reader to the nature of basic psychological research.

EXPLORING THE SEACOAST—John and Jane Greverus Perry—*Whittlesey House*, 189 p., illus. by Stephen Kraft, \$3.50. Tells boys and girls how to go about exploring the coast.

EXPRESS TO THE STARS: Rockets in Action—Homer E. Newell, foreword by Lyndon B. Johnson—*McGraw*, 324 p., illus. by Gustav Schrotter, \$5.75. Non-technical and concise discussion of modern rocketry in theory and action.

GEOGRAPHY: Our Planet, Its Peoples and Resources—Gordon Manley and others, Eds.—*Doubleday*, 360 p., illus. by Hans Erni, \$9.95. Pictorial reference volume for young people on 150 aspects of regional geography.

GUIDE TO ROCKETS, MISSILES AND SATELLITES—Homer E. Newell—*Whittlesey House*, 2nd ed., 96 p., photographs, \$3.25. For quick reference.

HIGH SPEED PROBLEMS OF AIRCRAFT AND EXPERIMENTAL METHODS—A. F. Donovan and others, Eds.—*Princeton Univ. Press*, 976 p., illus., \$22.50. Includes extensive treatment of supersonic and hypersonic wind tunnel techniques and free flight research.

HUMAN VALUES AND SCIENCE, ART AND MATHEMATICS—Lillian R. Lieber—*Norton*, 149 p., illus. by Hugh G. Lieber, \$3.95. Original and amusing use of mathematical concepts to give better idea of what the human mind is capable of.

HURRICANE FROM CHINA—Denis Warner—*Macmillan*, 210 p., \$3.95. Australian journalist's analysis of what is happening in China today.

LOUIS PASTEUR: The Story of His Major Discoveries—Jacques Nicolle—*Basic Bks.*, 252 p., illus., \$4.50. French biologist's biography stresses Pasteur's methods of investigation.

MEGALOPOLIS: The Urbanized Northeastern Seaboard of the United States—Jean Gottman—*Twentieth Century Fund*, 810 p., maps, \$10. Scholarly analysis of the complex forces that have created the region's pattern of urbanized concentration, "a trend gradually becoming characteristic of this century."

MEN OF SPACE: Profiles of the Leaders in Space Research, Development and Exploration, Vol. 3—Shirley Thomas—*Chilton Co.*, 247 p., photographs, \$3.95. Biographies of Doolittle, Draper, Flickinger, Kantrowitz and others.

MY WILDERNESS: East to Katahdin—William O. Douglas—*Doubleday*, 290 p., illus. by Francis Lee Jacques, \$4.95. Covers 11 wilderness areas between Arizona and Maine, and finds man "the worst predator of all."

NON-LINEAR THEORY OF THIN ELASTIC SHELLS—Kh. M. Muskhelishvili and K. Z. Galimov, transl. from Russian—*Tatknigoizdat (OTS)*, 374 p., illus., \$3.75. Published for NSF and NASA by Israel Program for Scientific Translations.

PEACETIME USES OF OUTER SPACE—Lloyd V. (Continued on p. 375)

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Books of the Week

(Continued from p. 372)

Berkner and others; Simon Ramo, Ed.—*McGraw*, 279 p., illus., \$6.95. Addressed to the intelligent, interested layman, book describes impact and possibilities of space science and technology.

PIEZOELECTRIC PROPERTIES OF WOOD—V. A. Bazhenov, transl. from Russian—*Consultants*, 180 p., \$9.50. Includes results of experimental work on the piezoelectric and physical-mechanical properties of wood and their mutual correlation.

PLANTS, VIRUSES AND INSECTS—Katherine Esau—*Harvard Univ. Press*, 110 p., illus., \$3.75. On the complex relations of structure and function of phloem tissue, insects that feed on it and viruses that cause its degeneration.

PRINCIPLES OF ELECTRONIC WARFARE—Robert J. Schlesinger and others—*Prentice-Hall*, 213 p., diags., \$8. Fundamentals of technical and tactical aspects of military electronics.

PRINCIPLES OF TEXTILE TESTING: An Introduction to Physical Methods of Testing Textile Fibres, Yarns and Fabrics—J. E. Booth—*Chemical Pub. Co.*, 497 p., illus., \$12.50. Covers standard methods and instruments as well as recent procedures and tests developed in research laboratories.

THE PUTNAM MEDICAL DICTIONARY—Norman Burke Taylor and Allen Ellsworth Taylor with Ann D. A. Taylor—*Putnam*, 933 p., illus., \$4.95. Compact medical dictionary for students and practitioners in nursing and allied health fields.

ROBERT KOCH: Father of Bacteriology—David C. Knight—*Watts, F.*, 165 p., illus. by Gustav Schrotter, \$1.95. Juvenile biography.

SCIENCE TODAY: Talks by 15 Outstanding Scientists—Sir Edward V. Appleton and others—*Criterion Bks.*, 192 p., illus., \$3.95. Survey of contemporary science based on a recent British television series for high school students.

SPANISH: Spanish-English, English-Spanish (American English)—Based on Fucilla Spanish Dictionary, rev. by Ida Navarro Hinojosa; Emilio C. LeFort, Ed.—*Follett*, 290 p., indexed \$2.95; regular \$2.50. Modern dictionary with 40,000 entries.

THE STORY OF DOGS—Dorothy E. Shuttleworth—*Doubleday*, 56 p., illus. by G. Don Ray, \$2.95. Informs boys and girls about various dog breeds.

THE STORY OF HARBORS—Ben Wattenberg—*Sterling*, 48 p., photographs, \$2.50. For boys and girls.

SYNTHESIS OF MOLECULAR AND CELLULAR STRUCTURE—Dorothea Rudnick, Ed.—*Ronald* 252 p., illus., \$9. Papers of the Nineteenth Growth Symposium held at Brandeis University, 1960. Subjects range from behavior of nucleic acids and adaptive enzyme control to control of organ regeneration in amphibia.

TMI-GROLIER SELF-TUTORING COURSE: Basic Russian Reading—Marcel I. Weinreich, Ed.—*Teaching Materials Corp.*, 400 p., loose-leaf, boxed, \$10. Programmed learning course, teaches Cyrillic alphabet, simple words and phrases.

TECHNICAL DRAWING PROBLEMS. Series II—Henry Cecil Spencer—*Macmillan*, 2nd ed., unpagged, illus., paper, \$5.50. Workbook of comprehensive set of practical problem sheets.

WITCH DOCTOR'S APPRENTICE—Nicole Maxwell—*Houghton*, 353 p., photographs, map, \$5. Amateur explorer's story of her search for medicinal plants along the tributaries of the Amazon.

• Science News Letter, 80:372 December 2, 1961

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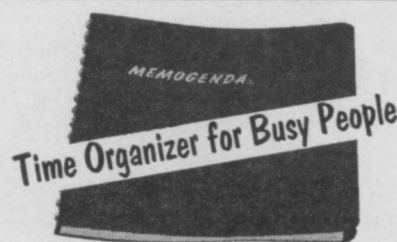
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