

# 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.

**ABOUT CHEMISTRY**—Magnus Pyke—*Macmillan*, 219 p., illus., \$4.50. Helps the layman understand what chemistry is, how it works, and how man puts it to practical use.

**BEGINNING SCIENCE WITH MR. WIZARD**, Four Books: Flying. Heat. Light. Water—Don Herbert and Hi Ruchlis—*Doubleday*, 32 p. each, illus. by Mel Hunter, \$1.25 each. Amply illustrated, shows boys and girls how to do the simple experiments Mr. Wizard does on TV.

**BEYOND THE PLANET EARTH**—Konstantin Tsiolkovsky, transl. from Russian by Kenneth Syers—*Pergamon*, 190 p., \$3.75. Russian rocket pioneer's scientific fantasy, written in 1920, with biographical foreword.

**BIRD PORTRAITS IN COLOR**: 295 North American Species—Thomas S. Roberts, rev. by Walter J. Breckenridge. Dwan W. Warner and Robert W. Dickerman—*Univ. of Minn. Press*, rev. ed., 202 p., 92 color plates by Allan Brooks and others, \$5.95. Reference work for amateur bird watchers and ornithologists.

**CARIBBEAN STUDIES: A Symposium**—Vera Rubin, Ed.—*Univ. of Wash. Press*, 2nd ed., 124 p., map, \$3. Papers analyzing the sociocultural complexity of the people in the Caribbean.

**THE CHALLENGE OF FUSION**—Duncan Curry, III and Bertram R. Newman—*Van Nostrand*, 192 p., illus., \$5.50. Answers the layman's questions about controlled thermonuclear power, the principles and immense problems

involved, and how it may change our present pattern of life.

**COLLEGE CHEMISTRY LABORATORY**—M. E. Lash—*Burgess*, 122 p., paper, \$2.90. To be used with first semester course in Freshman Chemistry.

**THE DIFFUSION OF COUNTING PRACTICES**—A. Seidenberg—*Univ. of Calif. Press*, 84 p., illus., maps, paper, \$2.50. Study of the spread of pure 2-counting and neo-2-counting among the aborigines of the five continents.

**DYNAMICS**—Horace Lamb—*Cambridge Univ. Press*, 351 p., paper, \$3.75. Reprint.

**THE EARTH: Rocks, Minerals and Fossils**—W. B. Harland—*Watts, F.*, 255 p., illus. by Paxton Chadwick, \$4.95. Profusely illustrated introduction to geology for boys and girls.

**ENGINES AND HOW THEY WORK**—Geoffrey Boumphrey—*Watts, F.*, 255 p., illus. by J. S. Graham Browne, \$4.95. Informs young people about development of engines, from early pumps to gas turbines.

**THE FIRST BOOK OF TOOLS: The Story of the 12 Tools of Man**—Gene Liberty—*Watts, F.*, 62 p., illus. by R. Mayhew, \$1.95. Shows children the basic types of tools, ancient and modern.

**FROM DUALISM TO UNITY IN QUANTUM PHYSICS**—Alfred Lande—*Cambridge Univ. Press*, 114 p., \$3.75. Reduces the dualistic quantum phenomena to elementary general principles of symmetry, invariance, continuity and the like.

**HANDBOOK OF RESEARCH METHODS IN CHILD DEVELOPMENT**—Paul H. Mussen, Ed.—*Wiley*, 1061 p., illus., \$15.25. Comprehensive coverage of research methodology, addressed to investigators and graduate students of child study techniques.

**HIGH SCHOOL MATHEMATICS**, (Units 1-4). 1: The Arithmetic of Real Numbers. 2: Generalizations and Algebraic Manipulation. 3: Equations and Inequalities. 4: Ordered Pairs and Graphs—University of Illinois Committee on School Mathematics—*Univ. of Ill. Press*, rev. ed., 141 p., 158 p., 197 p., 131 p., paper, teachers' edition \$6; students' \$2.25.

**A HISTORY OF THE THEORIES OF AETHER AND ELECTRICITY**, Vol. I: The Classical Theories. Vol. II: The Modern Theories—Sir Edmund Whittaker—*Harper*, 434 p., 319 p., paper, Vol. I: \$1.95; Vol. II: \$1.85. Reprint, originally published in 1951 and 1953.

**HOME CARPENTRY HANDBOOK**—R. J. DeCristoro—*Fawcett*, 144 p., illus., \$2.50; paper 75¢. Guide for the home workshop.

**HUSBANDS & WIVES: The Dynamics of Married Living**—Robert O. Blood, Jr. and Donald M. Wolfe—*Free Press*, 293 p., \$5. Sociological study based primarily on interviews with wives in metropolitan Detroit.

**THE IMPACT OF EDUCATIONAL TELEVISION**—Wilbur Schramm, Ed.—*Univ. of Ill. Press*, 247 p., \$5. Selected studies from research sponsored by the National Educational Television and Radio Center.

**INFRARED METHODS: Principles and Applications**—G. K. T. Conn and D. G. Avery—*Academic*, 203 p., illus., \$6.80. Principles of the chief components used in exploring the infrared region, and their practical applications.

**ISOTOPE EFFECTS ON REACTION RATES**—Lars Melander—*Ronald*, 181 p., \$6. Presents briefly the main principles of kinetic isotope effects.

**ISOTOPES**—J. L. Putman—*Penguin*, 232 p., illus., paper, \$1.95. Tells how atoms and their radiations are used by man.

**THE QUEST OF LOUIS PASTEUR**—Patricia Lauber—*Garden City Bks*, 56 p., illus. by Lee J. Ames, \$2.50. Biography for children.

**SCIENCE CLUBS OF AMERICA SPONSOR HANDBOOK, 1960-61**—Leslie Watkins, Ed.—*Science Service*, 64 p., illus., paper, \$1. A guide to science club activities, science fairs, projects and scholarship opportunities.

**THE SCIENTIFIC AMERICAN BOOK OF PROJECTS FOR THE AMATEUR SCIENTIST**—C. L. Stong, introd. by Vannevar Bush—*Simon & Schuster*, 584 p., illus. by Roger Hayward, photographs, \$5.95. Experiments and diversions in astronomy, archaeology, biology, nuclear physics, optics and other fields of science.

**SEEING COLOURS**—J. Bergmans, transl. from Dutch—*Macmillan*, 80 p., color chart, \$3. Concise treatment of the theories of color vision.

**SUCCESSFUL PREPARATION FOR FCC RADIO OPERATOR LICENSE EXAMINATIONS**—Darrell L. Geiger—*Prentice-Hall*, 689 p., diagrams, \$9.25. Well-organized guide and useful reference to electronics.

**TELEVISION FACTBOOK, Fall-Winter 1960**—Paul Stone, Ed.—*Television Digest*, 31st ed., 506 p., map, paper, \$5. Indexed reference to stations in U. S. and abroad, program sources, allocations, closed circuit and pay TV.

**THERMODYNAMIC TABLES AND OTHER DATA**—R. W. Haywood, Ed.—*Cambridge Univ. Press*, 2nd ed., 23 p., paper, 50¢.

**VOLCANIC HISTORY OF THE GUATEMALAN HIGHLANDS**—Howell Williams—*Univ. of Calif. Press*, 72 p., maps, plates, paper, \$2.

• Science News Letter, 78:348 November 26, 1960

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