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ADVANCED MAGNETISM AND ELECTROMAGNETISM—Alexander Schure, Ed.—*Rider*, 96 p., diagrams, paper, \$2.25. Explains advanced concepts such as the cyclotron, the mass spectrograph, and terrestrial magnetism.

AMERICAN CIVILIZATION AND ITS LEADERSHIP NEEDS, 1960-1990—James C. Charlesworth, Ed.—*Am. Acad.*, Annals, Sept. '59, 123 p., paper, \$2. Symposium on American methods of selecting and training key manpower.

ATLAS: THE STORY OF A MISSILE—John L. Chapman—*Harper*, 190 p., photographs, \$4. The inside story of the first American intercontinental ballistic missile.

ATMOSPHERIC DIFFUSION AND AIR POLLUTION: Proceedings of Symposium held at Oxford, August 24-29, 1958—F. N. Frenkiel and P. A. Sheppard, Eds.—*Academic*, 471 p., illus., \$12. Volume 6 of "Advances in Geophysics."

BIOLOGICAL AND ENVIRONMENTAL EFFECTS OF NUCLEAR WAR: Hearings—Joint Committee on Atomic Energy, U. S. Congress—GPO, 966 p., illus., paper, \$3.75. Ten-page bibliography included.

CHEMICAL MAGIC: Mystery Demonstrations for Science Clubs, Classes, and General Entertainment Programs—Leonard A. Ford—*Dennis*, 141 p., illus., \$3.50. Directions for more than 100 chemical tricks.

COLLEGE AND UNIVERSITY TRUSTEESHIP—Morton A. Rauh—*Antioch Press*, 112 p., paper, \$1. Examines the role of the trustee.

COLLEGE PHYSICS—Francis Weston Sears and Mark W. Zemansky—*Addison-Wesley*, 3rd ed., 1024 p., illus., \$9.75. Physics text requiring no mathematical background beyond the elements of trigonometry.

COMPARATIVE ANATOMY OF THE VERTEBRATES—Theodore H. Eaton, Jr.—*Harper*, 2nd ed., 384 p., illus., \$6. Revised and enlarged textbook.

COMPLETE FIELD GUIDE TO AMERICAN WILDLIFE: East, Central and North—Henry Hill Collins, Jr.—*Harper*, 683 p., 2,000 illus. & maps, \$6.95. Handbook on birds, mammals, reptiles, fish and seashore life found in the U. S. and Canada east of the Rockies and north of the Carolinas and Oklahoma.

CONTRIBUTIONS FROM THE MUSEUM OF HISTORY AND TECHNOLOGY—Frank A. Taylor, Dir.—*Smithsonian Inst. (GPO)*, 201 p., illus.,

\$2.50. Describes early mechanical devices, such as clockwork, compass and steel plow.

ELECTRICAL ENGINEERING FOR PROFESSIONAL ENGINEERS' EXAMINATIONS—John D. Constance—*McGraw*, 448 p., \$9.50. Problems and exercises for license candidates.

ENCYCLOPEDIA OF ANIMAL CARE (FORMERLY BLACK'S VETERINARY DICTIONARY)—William C. Miller and Geoffrey P. West—*Williams & Wilkins*, 5th ed., 1056 p., illus., \$9. Completely revised edition.

EVOLUTION AND CHRISTIAN THOUGHT TODAY—Russell L. Mixter, Ed.—*Eerdmans*, 224 p., plates, \$4.50. Re-examination of scriptural data relevant to the question of origin and organic development, by 13 evangelical Christian scientists.

THE FIRST BOOK OF MINING—Patricia Maloney Markun—*Watts*, F., 69 p., illus. by M. Waltrip, \$1.95. Informative story of the mining of metals and coal.

THE GRADUATE SCHOOL AND THE DECLINE OF LIBERAL EDUCATION—Earl J. McGrath—*Teachers College*, 65 p., paper, \$1.50. In the author's opinion, "the liberal arts colleges must free themselves from the dominance of the graduate school."

THE HELICOPTER—Jacob Shapiro—*Macmillan*, 269 p., illus., \$4.50. For the science-minded layman, basic helicopter fundamentals and history.

HOW TO GET THE MOST OUT OF TAPE RECORDING—Lee Sheridan—*Robins Industries*, 128 p., illus., paper, \$1. Helpful hints on the use of recorders, editing and splicing of tapes, and on tape recording and the law.

INTERNATIONAL SYMPOSIUM ON PLASTICS TESTING AND STANDARDIZATION—Am. Soc. for Testing Materials, 269 p., illus., \$6. How national standards are achieved and discussion of engineering and thermal properties of plastics.

AN INTRODUCTION TO RADIATION COUNTERS AND DETECTORS—C. C. H. Washtell, foreword by A. G. Maddock—*Philosophical Lib.*, 115 p., illus., \$7.50. For the technologist using radioactive measurement techniques.

MAGNETIC AND ELECTRICAL FUNDAMENTALS: Franklinian Approach—Alexander Efron—*Rider*, 124 p., illus., paper, \$2.50. Emphasis is on the physics viewpoint.

THE NATIONAL SCIENCE FOUNDATION AND THE LIFE SCIENCES—Committee on Government Operations, U. S. Senate—GPO, 96 p., paper, 30¢. Report on basic research in the biological field.

NATURE AND PROPERTIES OF ENGINEERING MATERIALS—Zbigniew D. Jastrzebski—*Wiley*, 571 p., \$11. Basic knowledge necessary for intelligent selection and use of materials for specific engineering applications.

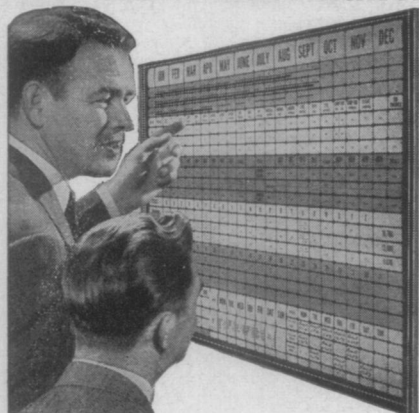
THE ROCKEFELLER FOUNDATION ANNUAL REPORT 1958: The President's Review including A Quarter Century in the Natural Sciences by Warren Weaver—The Rockefeller Foundation, 168 p., illus., paper, free upon request to Foundation, 49 W. 49th St., New York, N. Y.

RUNES: AN INTRODUCTION—Ralph W. V. Elliott—*Philosophical Lib.*, 124 p., 24 plates, \$10. Study of runes in general and of English runic inscriptions in particular.

THE SCATTERING AND DIFFRACTION OF WAVES—Ronold W. P. King and Tai Tsun Wu—*Harvard Univ. Press*, 218 p., diagrams, \$6. Monograph on aspects of diffraction and scat-

(continued on p. 46)

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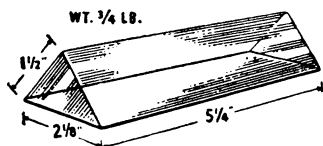
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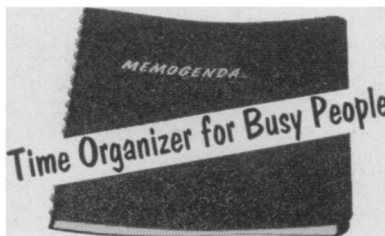
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Books of the Week

(continued from p. 44)

tering of reflections from surfaces of complex shape.

STRESS AND CELLULAR FUNCTION—H. Laborit and others—*Lippincott*, 255 p., illus., \$7.50. Original French edition was called "Resuscitation: Physio-biological Bases and General Principles."

SYNTHESIS AND ORGANIZATION IN THE BACTERIAL CELL—E. F. Gale—*Wiley*, 110 p., illus., \$3.50. 1959 CIBA Lectures in Microbial Biochemistry, emphasizes synthesis of proteins and nucleic acids.

TECHNOLOGY AND CULTURE, VOL. I, No. 1, Winter 1959—Melvin Kranzberg, Ed.—*Wayne State Univ. Press*, 108 p., illus., paper, \$2, quarterly, \$7 a year. New international quarterly of the Society for the History of Technology.

THEORY OF FLIGHT—Richard von Mises with W. Prager and Gustav Kuerti, new introd. by Kurt H. Hohenemser—*Dover*, 629 p., illus., paper, \$2.85. Reprint of textbook classic.

TURBULENCE: An Introduction to Its Mechanism and Theory—J. O. Hinze—*McGraw*, 586 p., \$15. Fundamentals of turbulent flows for the chemical engineer.

THE UNITED STATES OF AMERICA: 50-State True Raised Relief Map—*Aero Service Corp.*, 28" x 18", framed, \$9.95. Colorful plastic, three-dimensional wall map, with 4,000 place names, map index and legend. For school, office and home.

WHALE ADVENTURE—Willard Price—*Day*, 191 p., \$3.50. Boys' experience with a whaling expedition.

THE WORLD BENEATH THE CITY—Robert Daley—*Lippincott*, 223 p., photographs, \$3.95. The story of New York's water pipes, sewers, subways, gas pipes, underground cable systems, and the men who put them there.

Science News Letter, January 16, 1960

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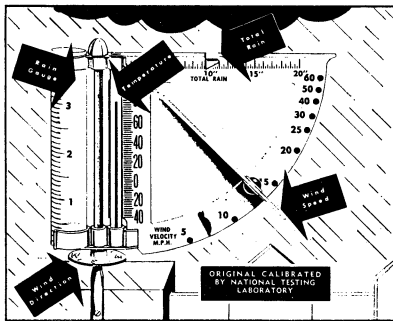
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