

# 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.

ADVANCES IN FLUORINE CHEMISTRY, Vol. I—M. Stacey, J. C. Tatlow and A. G. Sharpe, Eds.—*Academic*, 203 p., illus., \$8. Reports on research done with halogen fluorides, transition metal fluorides, fluoroboric acids and high-valency metallic fluorides.

THE APPLICATIONS OF ELLIPTIC FUNCTIONS—Alfred George Greenhill—*Dover*, 357 p., paper, \$1.75. Unabridged reprint of work first published in 1892.

CHEMICAL INSTRUMENTATION: A Systematic Approach to Instrumental Analysis—Howard A. Strobel—*Addison-Wesley*, 653 p., illus., \$9.75. Text for course in instrumental analysis on the advanced undergraduate-graduate level.

CLASSIFICATION OF ELECTRON TUBES — J. Haantjes and H. Carter—*Macmillan*, 96 p., illus., paper, \$3.50. Color chart, diagrammatic presentation, cut-away views of typical tubes make this a helpful guide for student and layman.

CYTOLOGY AND EVOLUTION—E. N. Willmer—*Academic*, 430 p., illus., \$10. Textbook stressing the interpretation of observed data drawn from many areas of zoological research.

DIFFERENTIAL EQUATIONS FOR ENGINEERS—Philip Franklin—*Dover*, 300 p., paper, \$1.65. Reprint of book published in 1933 under the title "Differential Equations for Electrical Engineers."

FACILITIES AND EQUIPMENT FOR SCIENCE AND MATHEMATICS: Requirements and Recommendations of State Departments of Education—W. Edgar Martin—*Office of Education (GPO)*, 130 p., illus., paper, \$1.

THE FIRST BOOK OF THE CONGO—Philip McDonnell—*Watts, F.*, 69 p., illus., \$1.95. Essential facts in simple terms for young readers.

GENETIC BASIS OF MORPHOLOGICAL VARIATION: An Evaluation and Application of the Twin Study Method—Richard H. Osborne and Frances V. De George, foreword by Th. Dobzhansky—*Harvard Univ. Press*, 204 p., illus., \$6. Twin study method applied to the detection of complex genetic variability and to the analysis of genetic-environmental interaction.

HYPERSONIC FLOW—A. R. Collar and J. Tinkler, Eds.—*Academic*, 432 p., illus., \$13.50. Proceedings of the Eleventh Symposium of the Colston Research Society held in the University of Bristol, April, 1959.

INFRARED RADIATION—Henry L. Hackforth—*McGraw*, 303 p., illus., \$10. Discusses principles, sources and optical components of IR, and its application in the sciences, industry and space technology.

AN INTRODUCTION TO FOLK MUSIC IN THE UNITED STATES—Bruno Nettl—*Wayne State Univ. Press*, 122 p., paper, \$2.50. Introduces layman to the ethnic background mainly of the non-English speaking groups represented in American folk music.

AN INTRODUCTION TO STATISTICAL THERMODYNAMICS—Terrell L. Hill—*Addison-Wesley*, 508 p., \$9.75. Introductory textbook on equilibrium statistical mechanics.

THE LIVING RIVER—Isaac Asimov—*Abelard-Schuman*, 232 p., \$3.95. The story of our blood stream that keeps each cell supplied with food and air, removes wastes, carries chemicals where needed and protects the body against germs and toxins.

MEASURING HEALTH LEVELS IN THE UNITED STATES, 1900-1958—Odin W. Anderson and Monroe Lerner—*Health Information Founda-*

*tion*, 38 p., paper, single copies free upon request direct to publisher, 420 Lexington Ave., New York 17, N. Y.

NEW WAY TO KILL WEEDS IN YOUR LAWN AND GARDEN—R. Milton Carleton—*Arco*, 112 p., illus., \$2.50. Covers all common lawn weeds and the ways to destroy them.

NOW WE ARE CIVILIZED: A Study of the World View of the Zapotec Indians of Mitla, Oaxaca—Charles M. Leslie—*Wayne State Univ. Press*, 108 p., photographs, \$3.95. Anthropologist's contemporary portrait of an Indian community in southern Mexico.

PRINCIPLES UNDERLYING THE INTERPRETATION OF SEISMOGRAMS—Frank Neuman—*Coast & Geodetic Survey (GPO)*, rev. ed., 42 p., charts, paper, \$1.50.

PROBABILITY: An Introduction—Samuel Goldberg—*Prentice-Hall*, 322 p., \$7.95. Modern introduction to the mathematical theory of probability using the language and notation of sets.

THE SOIL AND ITS FERTILITY—H. Teuscher and R. Adler with Jerome P. Seaton—*Reinhold*, 446 p., \$12. Describes the soil, its constituents, properties, and actions, in relation to the plants which it produces, giving detailed scientific background.

STILLWATER IGNEOUS COMPLEX, MONTANA: A Quantitative Mineralogical Study—H. H. Hess—*Geological Soc. of Am.*, Memoir 80, 230 p., illus., map, \$5.50. Contains Appendix by J. R. Smith on "Optical Properties of Low-Temperature Plagioclase."

THE STRUCTURE AND DYNAMICS OF THE PSYCHE—C. G. Jung, transl. by R. F. C. Hull—*Pantheon Bks.*, 596 p., \$6. Volume 8 of Collected Works, contains "On Psychic Energy" (1928), "On the Nature of the Psyche" (1946), and "Synchronicity: An Acausal Connecting Principle" (1952).

STYLE GUIDE FOR CHEMISTS—Louis F. and Mary Fieser—*Reinhold*, 116 p., \$2.95. Principles of usage, written by chemists for chemists.

THEORY OF INERTIAL GUIDANCE—Connie L. McClure—*Prentice-Hall*, 340 p., illus., \$12. Integrated treatment of the analytical and mechanical rudiments of inertial guidance systems.

TREATING CANCER: Surgery, Radiation, Chemotherapy—National Cancer Institute—*Govt. Printing Office*, 16 p., paper, 15¢ direct to publisher, Washington 25, D. C. Explains for the layman how malignant diseases are treated.

A TREE IS BORN—J. M. Guilcher and R. H. Noailles—*Sterling*, 100 p., 127 photographs, \$2.50. Follows development from seed of the horse chestnut, oak, walnut and pine.

TREES AND SHRUBS: Where to Buy Them—Henry Teuscher, Ed.—*Brooklyn Botanic Garden*, 64 p., illus., paper, \$1. Directory of sources of hard-to-find plants, dwarf conifers, evergreens, flowering trees and shrubs. Nearly 1,000 plant descriptions give size, flower, foliage and fruit, season of bloom and zone of hardiness.


VITAMIN B<sub>12</sub>—E. Lester Smith—*Wiley*, 196 p., \$3. Monograph reviews developments in vitamin B<sub>12</sub> research. Bibliographies include significant papers up to the middle of 1958.

YOU AND YOUR CAREER—*Collier's Encyclopedia*, 32 p., 50¢ direct to publisher, 640 Fifth Ave., New York 19, N. Y. Contains special coverage on careers in science.

YOU CAN PREVENT ILLNESS—Edward R. Pinckney—*Lippincott*, 157 p., \$3.50. Physician outlines basic principles to help protect family from accident and disease.

YOUTH AND THE FBI—John Floherty and Mike McGrady, foreword by J. Edgar Hoover—*Lippincott*, 159 p., photographs, \$3. Tells in narrative form the story of juvenile crime and what the FBI and police are doing to prevent and stop it.

Science News Letter, July 2, 1960



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