

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.

ALDRICH ORGANIC RESEARCH CHEMICALS, Catalog 10—*Aldrich Chemical Co.*, 303 p., paper, request directly from publisher, 2369 North 29th St., Milwaukee 10, Wis. Price list of more than 5,000 research chemicals, listed alphabetically and by classes of compounds.

ALL ABOUT SOUND AND ULTRASONICS—Ira M. Freeman—*Random House*, 138 p., illus. by Irving Geis, photographs, \$1.95. Introduction to the study of audible and inaudible sound, for younger readers.

THE ANALYSIS OF BEHAVIOR: A Program for Self-Instruction—James G. Holland and B. F. Skinner—*McGraw*, 175 p., diagrams, paper, \$3.50. Introductory course in psychology, set up in sequences of steps as in machine programming.

AWAKENED CHINA: The Country Americans Don't Know—Felix Greene—*Doubleday*, 425 p., \$5.95. Newspaper correspondent tells of what he has seen and heard on his two trips inside mainland China in 1957 and 1960.

BACTERIOLOGY FOR DENTAL STUDENTS: A Laboratory Manual—Marshall L. Snyder, Marie Slawson and Richard B. Parker—*Burgess*, 123 p., illus., paper, \$3.50.

CHEMICAL THERMODYNAMICS—John G. Kirkwood and Irwin Oppenheim—*McGraw*, 261 p., \$8.75. Textbook designed to serve as senior or graduate course in thermodynamics for chemists.

CHESS FOR YOUNG PEOPLE—Fred Reinfeld—*Holt*, 112 p., illus., \$3.50. Clear description of the fundamentals of the game, with some chess problems and endgame compositions.

CHILDREN OF THE ASHES: The Story of a Rebirth—Robert Jungk, transl. from German by Constantine Fitzgibbon—*Harcourt*, 317 p., photographs, \$4.95. The story of the survivors of Hiroshima since the bomb, based on diaries, stenographic accounts and other factual records.

CHRISTMAS TREES AND HOW THEY GROW—Glenn O. Blough—*Whittlesey House*, 48 p., illus. by Jeanne Bendick, \$2.75. Tells children about the different kinds of trees used at Christmas.

COMPARATIVE PLANT ANATOMY—Sherwin Carlquist—*Holt*, 146 p., illus. \$5. A guide to taxonomic and evolutionary application of anatomical data in angiosperms, for the mature student.

THE CONTINENT WE LIVE ON—Ivan T. Sanderson—*Random House*, 300 p., 235 photographs by Eliot Porter and others, maps, \$20. Breathtaking photography, printed in Switzerland, illustrates zoologist's well organized presentation of wildlife in the North American natural environment. Highly readable work on ecology for the general reader.

DANGER! ICEBERGS AHEAD!—Lynn and Gray Poole—*Random House*, 79 p., photographs, maps, \$1.95. About the nature of icebergs and the work of the International Ice Patrol.

DESIGN MANUAL FOR TRANSLATOR CIRCUITS—John M. Carroll, Ed.—*McGraw*, 381 p., illus., \$9.50. Compiled to help the engineer in designing circuits using transistor and other semiconductor devices.

FAMOUS BRIDGES OF THE WORLD—D. B. Steinman—*Dover*, rev. ed., 99 p., illus. by Kurt Wiese, paper, \$1. Short history of bridge building written for younger readers by a great bridge builder.

FOREIGN DISEASES OF FOREST TREES OF THE WORLD: An Annotated List—Perley Spaulding—*USDA (GPO)*, 361 p., paper, \$1. Lists viruses by common names, bacteria and fungi by Latin names; alphabetical host index of diseases, and list of foreign diseases potentially most dangerous to North American trees.

FUNDS FOR RESEARCH AND DEVELOPMENT IN INDUSTRY, 1958: Performance and Financing—*National Science Foundation (GPO)*, 119 p., paper, 65¢. Summary of survey showing trend data on the magnitude of R&D funds in terms of fields of science and types of work.

GENERAL BOTANY: Laboratory Exercises—Alvin R. Grove, Jr.—*Burgess*, 173 p., illus., paper, \$3.50. Aids student to get acquainted with the plant, its parts and its behavior.

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GROWTH AND REGULATION OF ANIMAL POPULATIONS—Lawrence B. Slobodkin—*Holt*, 184 p., diagrams, \$5. Treats the present theory of ecology on the advanced undergraduate and beginning graduate level.

HAVOC: The Story of Natural Disasters—William Bixby—*Longmans*, 180 p., \$3.50. Descriptions of volcanic eruptions, tidal waves, earthquakes, hurricanes, avalanches and floods, discussing forecasting problems and possible precautions.

HEALTH STATISTICS: Disability Days, United States, July 1959 to June 1960—*PHS (GPO)*, 50 p., paper, 40¢. Findings and detailed tables on restricted activity and bed disability of civilian population.

HOW DO YOU USE A SLIDE RULE? For Non-Mathematicians and Casual Calculators—Arthur A. Merrill—*Dover*, 35 p., illus., paper, 60¢. Ten easy lessons in multiplication and division.

THE HUBBLE ATLAS OF GALAXIES—Alan Sandage—*Carnegie Institute of Washington*, 32 p. text, 50 plates, \$10. Atlas of photographs illustrating revised classification system for galaxies. The outstanding set of plates was taken with the Mount Wilson 60- and 100-inch telescopes.

INDIAN OCEAN ADVENTURE—Arthur C. Clarke—*Harper*, 104 p., photographs by Mike Wilson, \$2.95. Skindivers' account of their undersea explorations and life in a lighthouse.

JOB MOTIVATIONS AND SATISFACTIONS OF COLLEGE TEACHERS: A Study of Faculty Members in Minnesota Colleges—Ruth E. Eckert and John E. Stecklein—*Off. of Educ. (GPO)*, 96 p., paper, 35¢. Summarizes results and presents data collected in a study of factors influencing the choice of college teaching as a career.

LECTURES ON FIELD THEORY AND THE MANY-BODY PROBLEM—E. R. Caianiello, Ed.—*Academic Press*, 327 p., \$9.50. On the fundamental and applied aspects of field theory, with emphasis on its use as a tool in the study of many-body problems.

LIVING FREE: The Story of Elsa and Her Cubs—Joy Adamson, introd. by Sir Julian Huxley—*Harcourt*, 159 p., 64 p. of photographs, \$5.95. A unique diary observing a tame lioness bringing up her cubs in the African bush, fully documented with a remarkable set of close-up photographs.

THE MAKING OF MAN—I. W. Cornwall—*Dutton*, 63 p., drawings and reconstructions by M. Maitland Howard, \$3. Reconstructs in word and picture what has become known through fossil evidence up to 1958 about Man's ancestry.

MANUAL OF FIELD BIOLOGY AND ECOLOGY—Allen H. Benton and William E. Werner, Jr.—*Burgess*, 3rd ed., 225 p., illus., paper, \$3. Introduces beginner to basic techniques and facts of taxonomy, and other biological disciplines which involve field work.

RIPPLE TANK STUDIES OF WAVE MOTION—W. Llowarch—*Oxford Univ. Press*, 66 p., photographs, diagrams, \$2.40. On the optics of the ripple tank and on the reflection, refraction, interference and diffraction of waves.

THE STORY OF NUMBERS—Patricia Lauber—*Random House*, 80 p., illus. by Mircea Vasiliu, \$1.95. An instructive book for beginners.

SYNOPSIS FOR MODERN SECONDARY SCHOOL MATHEMATICS—OEEC Office for Scientific and Technical Personnel—*Organisation for European Economic Cooperation*, 310 p., diagrams, paper, single copies free upon request direct to publisher, 1346 Conn. Ave., N.W., Washington, D. C. Suggestions for modern treatment of the mathematical curriculum, with the intellectually gifted students in mind.

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