

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, D. C. 20036

AFFECT, IMAGERY, CONSCIOUSNESS. Vol. II: The Negative Affects—Silvan S. Tomkins; Bertram P. Karon, Ed.—Springer Pub. Co., 580 p., illus., \$9. Introduces distress, contempt and shame as the major negative affects neglected by psychoanalytic theory, and presents the human being as an intercommunication system utilizing the feedback mechanism.

AMERICA'S GREAT DEPRESSION—Murray N. Rothbard—Van Nostrand, 361 p., \$8.95. An analysis of the causes of the great American depression, 1929-1933.

AMERICAN INVENTIONS: A Book to Begin On—Leslie Waller—Holt, unpag., illus. by Ed Embrey, \$2.50. Tells children about original inventions that changed our way of life.

ANALYSIS INSTRUMENTATION. 1963—L. Fowler, R. D. Eanes and T. J. Kehoe, Eds.—Plenum Press, 261 p., illus., \$12.50. Proceedings of the Ninth National ISA Analysis Instrumentation Symposium, held April 29-May 1, 1963, at Houston, Texas.

CANE SUGAR HANDBOOK: A Manual for Cane Sugar Manufacturers and Their Chemists—Spencer-Meade; George P. Meade, Ed.—Wiley, 9th ed., 845 p., illus., \$23.75. Fully revised edition of Handbook that has been in print for 75 years, with sections of merely historical interest eliminated, while special attention has been given to the expansion and recalculation of reference tables.

CELL INTERFACE REACTIONS—A. D. McLaren, Peter Mitchell and H. Passow; H. D. Brown, Ed.—Scholar's Lib. (N.Y.), 107 p., \$5.95. Three research papers on enzyme kinetics, membrane transport processes, and passive cation permeability.

CHEMICAL PLANT TAXONOMY—T. Swain, Ed.—Academic Press, 543 p., diagrams, \$16. Comprehensive attempt to survey the scope and usefulness of chemical analysis in plant taxonomy, bridging the two disciplines of chemistry and botany.

CONTEMPORARY RESEARCH IN LEARNING: Selected Readings—John R. Braun—Van Nostrand, 229 p., paper, \$1.95. Articles emphasize theoretical

and empirical discussions and highlight recent advances in learning theory.

DUCKS AT A DISTANCE: A Waterfowl Identification Guide—Bob Hines—Fish & Wildlife Service (GPO), 24 p., illus., paper, 25¢ direct to U.S. Govt. Printing Office, Washington 25, D.C. Describes, depicts in color and tells what to look for in order to identify mallard, teal, merganser and scoter.

EDUCATORS GUIDE TO FREE SCIENCE MATERIALS. 1963-1964—Mary Horkheimer Saterstrom, Ed.—Educators Progress Service, 4th ed., 313 p., paper, \$7.25. Annotated listing of 876 films, 104 filmstrips and other free materials from 357 sources, arranged under subject headings, title and source index.

FETAL PIG MANUAL—Charles A. Leone and Philip W. Ogilvie—Burgess, 48 p., illus. by Jeanne Esch, paper, \$2.95. Designed for elementary courses in zoology or anatomy.

FINDING OUT ABOUT BIRDS—William C. Dilger—Home Lib., 56 p., illus. by author, color photographs, \$2.95. Written by ornithologist to help children discover and understand the bird world around them.

A FULL LIFE AFTER 65—Edith M. Stern—Public Affairs Committee, Pamphlet No. 347, 28 p., illus. by Alexander Dobkin, paper, 25¢ direct to publisher, 22 E. 38th St., New York 16, N.Y. Sound advice for the elderly, issued in cooperation with the National Institute of Mental Health.

A HISTORY OF FLIGHT. Vol. 3 of The New Illustrated Library of Science and Invention—Courtland Canby, Ed.—Hawthorn Bks., 120 p., designed by Erik Nitsche, photographs, \$5.95. Handsome volume, printed in Switzerland, tells of the progressive advances in 20th century aviation.

HOW TO LISTEN TO THE WORLD. 1963-1964—O. Lund Johansen, Ed.—Gilfer Associates, 160 p., illus., paper, \$2.50. Newest revision of shortwave guide, accurate reference for beginner and experienced shortwave enthusiast, includes list of frequencies on which satellites can be heard.

AN ILLUSTRATED APPROACH TO MEDICAL PHYSICS—Maud E. Greenwood—Davis, F. A., 244 p., illus. by author, paper, \$5.95. An elementary practical text in physics with allied physiological principles to help understand procedures and equipment for medical diagnosis and therapy.

THE INSECT WORLD—John Pallister—Home Lib., 56 p., illus. by Sylvia D. Slayton, color photographs, \$2.95. Helps children to find interesting facts about the most common insects they can observe in their own backyards.

AN INTRODUCTION TO MOLECULAR KINETIC THEORY—Joel H. Hildebrand—Reinhold, 105 p., illus., paper, \$1.95. Advanced treatment of kinetic theory for the gifted high school student.

AN INTRODUCTION TO SOIL SCIENCE IN THE SOUTHEAST—Charles D. Welch and Gerald D. McCart—Univ. of N.C. Press, 280 p., illus., \$3.50. Basic information to provide vocational agricultural students and high school science students with reference material on soils.

LINEAR DIFFERENTIAL EQUATIONS IN THE REAL DOMAIN—Kenneth S. Miller—Norton, 193 p., \$5.75. Presents those portions of the classical and modern theory of linear differential equations that are of most interest to students of pure and applied mathematics on the intermediate level.

LITERATURE AND SCIENCE—Aldous Huxley—Harper, 118 p., \$3.50. Reactions of a man of letters to science and technology, and its influence on the creative writer's subject matter and vision.

THE MATHEMATICAL APPROACH TO PHYSIOLOGICAL PROBLEMS: A Critical Primer—Douglas Shepard Riggs—Williams & Wilkins, 445 p., \$13.50. A guide for the student who is starting to apply mathematical reasoning to the solution of physiological problems.

A MUST FOR CHEMISTRY & PHYSICS STUDENTS



The Elemental SLYD-RUL tells you, at a glance, symbol, weight, density, number, valences, color, melting and boiling point in °C for 98 elements. An ideal educational aid for science, physics and chemistry students. \$1 postpaid. Student rate: 12 or more, 75¢ ea. Money-back guarantee. Sorry, No C.O.D.'s.

THE SLYD-RUL CO., 1040 West Broadway Woodmere, New York

MATHEMATICAL ASPECTS OF PHYSICS: An Introduction—Francis Bitter—Doubleday, 188 p., illus., paper, \$1.25. Scientist discusses the repeated mathematical patterns of nature, from vibrations of tuning forks to oscillation of magnetic fields, as illustrations of what constitutes a law of physics.

MEDICAL AND HEALTH RELATED SCIENCES THESAURUS—Public Health Service—GPO, 213 p., paper, \$1.50. For research workers interested in the field of communications technology, this indexing guide containing some 12,200 terms, explains modification of keyword system, cross-reference structure and computer procedures.

MEDICAL ASPECTS OF RADIATION ACCIDENTS: A Handbook for Physicians, Health Physicists and Industrial Hygienists—Eugene L. Saenger, Ed.—US AEC (GPO), 357 p., illus., paper, \$1.75. Pertinent information, assembled by radiologist, for use in emergencies involving nuclear power leaks or fallout.

THE MIND: First Steps—Harry A. Wilmer—Watts, F., 73 p., illus. by author, \$3.95. Psychiatrist explains for young readers step by step how perception leads to final action.

MODERN MATHEMATICS AND YOUR CHILD—Harry L. Phillips and Marguerite Klutz—OE (GPO), 28 p., illus., paper, 20¢ direct to U.S. Govt. Printing Office, Washington 25, D.C. Explains modern trends in mathematics teaching to parents.

MODERN POLAROGRAPHIC METHODS—Helmut Schmidt and Mark von Stackelberg, transl. from German by R. E. W. Maddison—Academic Press, 99 p., diagrams, \$5.50. Advanced work on stationary and nonstationary methods with controlled voltage, methods with controlled current and combinations of both.

MULTISTAGE INVENTORY MODELS AND TECHNIQUES—Klaus Hermann Daniel and others, Herbert E. Scarf and others, Eds.—Stanford Univ. Press, 225 p., \$7.50. Monograph includes discussion of dynamic inventory problems and models of inventory distribution among interrelated agencies.

NUCLEAR AMBUSH: The Test-Ban Trap—Earl H. Voss, introd. by Willard F. Libby—Regnery, 612 p., \$6.50. A newspaper correspondent's chronological account of the test-ban movements and negotiations between 1955 and 1962.

THE OPTICAL MODEL IN NUCLEAR AND PARTICLE PHYSICS—P. B. Jones—Interscience, 118 p., \$4.50. An introduction to the principles of the optical model of the nucleus.

PATHFINDERS, U.S.A.: Your Career on Land, Sea and Air—Harry Edward Neal—Messner, 192 p., photographs, \$3.64. Career guide to professions in road building, merchant marine, civil aviation, Weather Bureau and U.S. Coast and Geodetic Survey.

PEST CONTROL AND WILDLIFE RELATIONSHIPS. Part III: Research Needs—Ira N. Gabrielson and others—Nat. Acad. of Sciences—Nat. Res. Council, 28 p., paper, \$1.25 direct to publisher, 2101 Constitution Ave., Washington 25, D.C. Directed to persons concerned with planning and facilitating research.

PHYSIOLOGY OF EXERCISE—Laurence E. Morehouse and Augustus T. Miller—Mosby, 4th ed., 323 p., illus., \$5.85. Textbook providing essential physiological background necessary for understanding the response of the body to exercise.

PLANNING A NATURE CENTER—Byron L. Ashbaugh—National Audubon Society, Nature Centers Div., 88 p., illus., photographs, paper, send \$2 direct to publisher, 1130 Fifth Ave., New York 28, N.Y. A practical guide to programming and developing a community center for nature study.

PROBLEMATIC RECREATIONS—Litton Industries, 5th ed., 46 p., illus., paper, single copies free upon request direct to publisher, 336 N. Foothill Rd., Beverly Hills, Calif. Mathematical posers that might challenge a professional mathematician.

THIS HUMAN WORLD—Allen K. Philbrick—Wiley, 500 p., photographs, maps, \$7.95. A world regional geography, demonstrating the geographical distribution of human activities and their complex interconnections.

TRANSFER OF LEARNING: An Enduring Problem in Psychology—Robert F. Grose and Robert C. Birney, Eds.—Van Nostrand, 194 p., paper, \$1.75. Selected readings of original research on how previous learning affects subsequent learning.

THE VIEW FROM A DISTANT STAR: Man's Future in the Universe—Harlow Shapley—Basic Bks., 212 p., \$4.95. Considers our species in the vast frame of space, time, evolution and in relation to other life on this and other planets.

WEST AND NON-WEST: New Perspectives—Vera Micheles Dean and Harry D. Harootian—Holt, 536 p., illus., \$5.95. An anthology of authoritative writings on the development of areas inside and outside the Western world, and on the interaction of West and Non-West.

WONDERS OF MATHEMATICS—Rocco Feraolo—Dodd, 64 p., illus. by Robert Bartram, \$3. About numerals, measures, indirect measurement, calendars and symbols, for young boys and girls.

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How Fast Can You Read?

A noted publisher in Chicago reports there is a simple technique of rapid reading which should enable you to double your reading speed by this simple, proven method and yet retain much more. Most people do not realize how much they could increase their pleasure, success and income through reading faster, easier, more accurately.

According to this publisher, anyone, regardless of his present reading habits and reading speed, can use this simple technique to improve his reading ability and develop it to a remarkable degree. Whether reading stories, textbooks, technical matter, it becomes possible to read sentences at a glance and entire pages in seconds by following this method.

To acquaint the readers of this publication with the easy-to-follow rules for developing rapid reading skill, the company has printed full details of their interesting self-training method in a new book, "Adventures in Reading Improvement," which will be mailed free to anyone who requests it. No obligation. Simply send your request to: Reading Improvement Program, 835 Diversey Parkway, Dept. 2646, Chicago 14, Illinois. A postcard will do.