

Books of the Week

Listing is an editorial service for readers' information. For convenient purchase of any book listed or any U.S. book in print, remit retail price (we pay postage) plus 25¢ handling charge if price is less than \$2 to Book Order Service, Science News, 1719 N St., N.W., Washington, D.C. 20036. Prices subject to publishers' changes. Be sure to include zip code in your address.

CONTROLLING POLLUTION: The Economics of a Cleaner America—Marshall I. Goldman, Ed.—Prentice-Hall, 175 p., \$4.95; paper, \$1.95. Articles by leading economists and scientists stating the nature of pollution and proposals for governmental regulation supported by economic incentives and subsidization.

DRAGONS OF THE AIR: An Account of Extinct Flying Reptiles—H. G. Seeley, with new introd. by Edwin H. Colbert—Dover, 239 p., illus., paper, \$1.75. Reprint (1901), deals with the anatomy and evolutionary adaptations of the pterosaurs, reptiles with wings, flying perhaps 60 million years before the first birds.

FOUR LECTURES ON RELATIVITY AND SPACE—Charles Proteus Steinmetz—Dover, 142 p., illus., paper, \$1.35. Unabridged republication of the work originally published in 1932.

FROM CELL TO ORGANISM: Readings from Scientific American—Donald Kennedy, Ed.—Freeman, 256 p., illus., \$9. The theme of the book is the biology of organisms, being, in great part, the biology of intercellular communication.

A GUIDE TO MATHEMATICS FOR THE INTELLIGENT NONMATHEMATICIAN—Edmund C. Berkeley—Simon & Schuster, 352 p., \$6.95. Addressing the hidden mathematician in every intelligent person, the main body of the book is devoted to making a dozen important mathematical ideas clear and understandable by relating them to everyday problems.

IN RETIREMENT: Pensioners in Great Britain and the United States—H. E. Bracey—La. State Univ. Press, 295 p., tables, \$7.50. Comparative analysis of ways of life and attitudes of retired people in Bristol, England and in New Orleans, La., based on interviews during which 200 to 300 questions were being asked.

LET US START HERE: An Introduction to Basic Readings in the Life Sciences—Paul Gibbons Roofe—World Pub. Co., 102 p., \$3.50. Lists and annotates classical and modern readings, both scientific and literary, recommended to graduate students, especially those interested in the evolution of the brain, intelligence and behavior.

THE LIFE OF THE MARSH: The North American Wetlands—William A. Niering—McGraw, 232 p., 100 color photographs, drawings, maps, \$4.95. Introduces young people to the origins and changes in fresh and salt water marshes and bogs, and to the web of living things making up the wetland community.

LOOK AT A GULL—Dare Wright—Random House, unpag., photographs, \$2.95. Close-up views of seagulls on shore and in flight.

MATHEMATICS MAKES SENSE: An Introduction to Propositional Algebra—W. D. Lewis—Arco Pub. Co., 234 p., diagrams, \$3.95. Intended to be read as a continuous narrative, presents mathematics not as a rigid discipline but as a common cultural heritage. Includes review questions and answers to exercises to test understanding.

THE MYTH OF THE MACHINE: Technics and Human Development—Lewis Mumford—Harcourt, 342 p., 32 plates, \$8.95. Attempts to explain the forces that have shaped technology from prehistoric times on, as a process interwoven with inventions in ritual, language and social organization.

NEW UNIVERSITY THOUGHT: Decisions

for America—Seymour Melman and others; Otto Feinstein, Ed.—New Univ. Thought Pub. Co., 140 p., paper, \$1.25 direct to publisher, P.O. Box 7431, Detroit, Mich. 48202. Special issue discussing priorities and consequences of U.S. decisions on domestic and foreign problems, to serve as working papers for conferences at some 130 universities and colleges this spring and summer.

PLASMA PHYSICS AND CONTROLLED THERMONUCLEAR FUSION—K. D. Sinel'nikov, Ed., transl. from Russian—IPST (CFSTI, NASA TT F-433), 468 p., illus., paper, \$7.80. Studies deal with high-frequency properties of plasma, gas discharge, plasma stability, interaction of plasma with magnetic fields, magnetic traps, and plasma diagnostics.

REFLECTIONS ON BIG SCIENCE—Alvin M. Weinberg—M.I.T. Press, 182 p., \$5.95. Collection of speeches and essays, partly on behalf of the large mission-oriented national laboratories, partly observations on and critical analyses of the wisdom of committees to decide about allocation of resources among competing scientific fields, or between science and other enterprises.

THE SCHOOL AS A CENTER OF INQUIRY—Robert J. Schaefer, foreword by Arthur G. Wirth—Harper, 77 p., \$3.95. The ninth John Dewey Society Lecture, recommends new sources for understanding the processes of education and for improvement of teaching.

SCIENCE, TECHNOLOGY AND AMERICAN FOREIGN POLICY—Eugene B. Skolnikoff—M.I.T. Press, 330 p., \$8.95. The writer, a political science professor with years of experience in government at the policy making level, presents the major areas of policy, showing the breadth of the relationship and the character of interaction between the scientific and other elements of major issues of foreign affairs.

SCIENTISTS AND WAR: The Impact of Science on Military and Civil Affairs—Sir Solly Zuckerman—Harper, 177 p., \$4.95. In this book the chief scientific advisor to the British government discusses the grave responsibilities of science and scientists concerning military and political decisions of our time.

THE SIERRA CLUB WILDERNESS HANDBOOK—David Brower, Ed.—Ballantine Bks., 272 p., illus., paper, maps, 75¢. Complete guide to camping and wilderness travel, includes Sierra Club's own GOING LIGHT WITH BACKPACK OR BURRO, as well as specific information on organized outings throughout the country's national parks and forests.

THE SOCIAL NATURE OF PSYCHOLOGICAL RESEARCH: The Psychological Experiment as a Social Interaction—Neil Friedman—Basic Bks., 204 p., \$6.95. An inquiry into the process by which psychological knowledge is obtained, questioning the validity of some observations, based on examination of films taken of 29 experimenters engaging 86 subjects in person perception experiments.

STANDARD INDUSTRIAL HYDRAULICS: Questions and Answers—Stephen Michael Elonka and Orville Howard Johnson—McGraw, 304 p., illus., \$10.95. Covers the field of modern industrial hydraulics from a practical viewpoint, pointing out problems, solutions and operating procedures.

THE TELESCOPE HANDBOOK AND STAR ATLAS—Neale E. Howard—Crowell, 226 p., photographs, diagrams, sky maps, \$10. Based on 30 years' work with secondary school students in the field of astronomy, the book discusses the factors that influence the capabilities and limitations of various instruments and lists heavenly objects within easy grasp of most amateur telescopes.

THEORY OF SHELLS AND PLATES: Proceedings of the Fourth All-Union Conference at Erevan, 1962, in the Armenian SSR—S. M. Dugar'yan, Ed., transl. from Russian—I.P.S.T. (CFSTI), 948 p., illus., paper, \$12.60. Plenary sessions dealt with general problems, stability and nonlinear problems, dynamics, thermoelasticity, creep and structural mechanics of shells and plates.

TRAP-NESTING WASPS AND BEES: Life Histories, Nests and Associates—Karl V. Krombein—Smithsonian Press, 570 p., 29 plates, \$12.50. Information presented embraces the study of many thousands of individual wasps, bees, beetles, and mites obtained from more than 3,400 trap-nests, representing nestings of 75

different predaceous wasps, 43 non-parasitic bees and 83 parasites and predators associated with them.

THE USE OF LSD IN PSYCHOTHERAPY AND ALCOHOLISM—Harold A. Abramson, Ed., introd. by Frank Fremont-Smith—Bobbs-Merrill, 697 p., \$17.50. Reports and discussion by physicians of research and clinical studies concerning psycholytic therapy and variables in LSD psychotherapy, and psychodelic therapy with special reference to alcoholism.

THE VISION OF THE PAST—Pierre Teilhard de Chardin, transl. from French by J. M. Cohen—Harper, 285 p., \$5. Develops the author's theory of Transformism, the change from one species to another through evolution, and discusses man's place in the universe.

WEATHER—Armand N. Spitz—Bantam Bks., 154 p., illus., paper, 60¢. Written for layman and student to help them understand the ways in which men have learned and are continuing to learn about the weather and other factors in their physical surroundings.

WHEELS—Wilfred Owen, Ezra Bowen and the Editors of LIFE—Time Inc., 200 p., illus., 72 p. in color, \$3.95 direct to Time-Life Bks., Time & Life Bldg., Chicago, Ill. 60611. An historical account of how the wheel, applied science and transportation systems have promoted the progress of the human race.

WHITE GRUBS AND THEIR ALLIES: A Study of North American Scarabaeoid Larvae—Paul O. Ritches—Ore. State Univ. Press, 219 p., drawings, plates, \$10. Monograph of interest to entomologists, research workers and students concerned with the identification of immature insects, in particular the larvae of the beetle families Scarabaeidae, Lucanidae and Passalidae.

WILD LIFE IN CANADA—R. D. Lawrence—Michael Joseph Ltd. (Nelson, Th.), 211 p., 30 plates, \$6. About the carnivores and the grass eaters that inhabit the still vast wilderness that stretches from the barren tundras of the Arctic to the steep slopes of the Rocky Mountains.

WORLD-WIDE SUMMER PLACEMENT DIRECTORY 1967: Summer Jobs—Beth Verssen, Ed.—Advancement & Placement Institute, multipaged, paper, \$6. Describes for teachers and college students foreign and U.S. summer jobs, listed by states, foreign teaching positions and some permanent career opportunities.

YOUR MAILROOM AND THE POSTAL SERVICES—Albert D. Davidson—Arco Pub. Co., 64 p., \$5. Well-organized information on the different classes of domestic mail, addressing, postage and packing, restrictions and special services, special postal programs and international mail.

Handbook of Knots & Splices

By CHARLES E. GIBSON
Now tie knots for every purpose—useful, ornamental, fun-to-make!

Book gives complete "1-2-3" sketches and instructions for every hitch, splice, bend, sling, lashing or whipping you'll ever need for boating, camping, climbing, fishing, hunting . . . for patio awnings, swings, hammocks, rope fences, "welcome" mats . . . ornamental lamps, vases, bell ropes, key chains, buggy whips, cat-o-nine tails, rope hand-cuffs, play quoits, etc.

They're all here . . . over 100 kinds of knots and rope-work! From the simple square knot to such fancy numbers as the Manrope, Stopper, Shroud, Crown, Turk's Head, and Pineapple knots. Also covers plaiting, braiding, much more! "Highly recommended."—*Library Journal*.

Profusely illustrated. **ORDER NOW!**
10-day Money-Back Guarantee • Send only \$3.95 to
EMERSON BOOKS, Inc., Dept. 253-R
251 West 19 Street, New York, N.Y. 10011



THE SCIENCE OF SALT

An Informal Introduction to Some of the Fundamentals of Chemistry and the Chemical Industry.

By **ROBERT FROMAN**

Illustrated by Anne Marie Jaus

Preface by Arthur F. Scott, Professor of Chemistry, Reed College.

At bookstores, \$3.25

DAVID MCKAY COMPANY, INC.