

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.

AGRICULTURAL CHEMICALS: What They Are/How They Are Used—Manufacturing Chemists' Assn., 64 p., illus., paper, 25¢ direct to publisher, 1825 Conn. Ave., N.W., Washington 9, D. C. On the nature, use and safety of insecticides, pesticides and herbicides.

ANALYSIS OF RESEARCH IN THE TEACHING OF MATHEMATICS, 1959 and 1960—Kenneth E. Brown and others—OE (GPO), 69 p., paper, 30¢. Summarizes findings on the teaching of mathematics at elementary, high school and college level.

BASIC HUMAN VALUES IN CHILDHOOD EDUCATION—Bess Goodykoontz, Ed.—Assn. for Childhood Educ., 76 p., paper, \$1.25. A colloquy of child development specialists from the major disciplines, discussing the effects of pressures on today's children, the basic human values and some implications for action in elementary schools.

BIRTH CONTROL SERVICES in Tax-Supported Hospitals, Health Departments and Welfare Agencies—Preface by Alan F. Guttmacher—Planned Parenthood Federation of Am., 56 p., illus., paper, 50¢ direct to publisher, 501 Madison Ave., New York 22, N. Y. The views of 14 experts in public health, medicine, social welfare and allied fields.

CARNEGIE INSTITUTION OF WASHINGTON—Caryl P. Haskins, Pres.—Carnegie Institution of Wash., 20 p., 30 color photographs, single copies free upon request direct to publisher, 1530 P Street, N.W., Washington 5, D. C. Booklet describes some of the basic research in which scientists are engaged in the various departments of the Institution.

COLOR IN BUSINESS, SCIENCE AND INDUSTRY—Deane B. Judd and Gunter Wyszecski—Wiley, 500 p., diagrams, \$15. Comprehensive treatment including new developments and international agreements in colorimetry, and new insights into color perception.

CONQUERING THE SUN'S EMPIRE—Frederick I. Ordway, III and Ronald C. Wakeford—Dutton, 128 p., illus., by Harry H-K Lange, \$3.95. Tells young people about the scientific and technological hurdles on the way to space exploration.

EFFECTIVE WRITING: A Tutor Text—Kellogg Smith and Jane Stapleford—Doubleday, 481 p., \$5.95. A scrambled text of programmed self-instruction, focuses on correcting common grammatical mistakes.

THE ELITE AND THE ELECTORATE: Is Government by the People Possible?—J. William Fulbright and others—Center for the Study of Democratic Institutions, 22 p., paper, single copies free upon request direct to Fund for the Republic, 133 E. 54th St., New York 22, N. Y.

FARMS AND FARMERS IN AN URBAN AGE—Edward Higbee—Twentieth Century Fund, 183 p., \$3. Summarizes findings of numerous studies of the changes, problems and imbalances in American agriculture today.

A FIELD GUIDE TO THE BIRDS OF TEXAS and Adjacent States—Roger Tory Peterson—Houghton, 304 p., illus. by author, \$4.95. Texas can boast 540 living species, the largest avifauna of any of the 50 states.

FRACTIONS: A Basic Course in Arithmetic—Betty K. Friel—Doubleday, 394 p., \$5.95. A Tutor Text offering self-instruction about the real nature of fractions and the rules of their uses.

THE FUNDAMENTALS OF FOOD ENGINEERING—Stanley E. Charm—AVI Pub. Co., 592 p., illus., \$24.50. Book stresses the mathematical theory of the engineering approach in the food industry, suggesting the employment of basic principles by using illustrations from the industry.

GIANT ANIMALS OF LONG AGO—Agnes McCarthy—Prentice-Hall, 63 p., illus. by George Geygan, \$2.95. Elementary level reading.

THE GUIDE TO SUMMER CAMPS AND SUMMER SCHOOLS, 1962-1963—Sargent, 13th ed., 316 p., illus., \$4.40; paper, \$2.20. Describes facilities and activities of each camp and school, many of which include tutoring and remedial courses.

HANDBOOK OF KNOTS AND SPLICES and Other Work with Hempen and Wire Ropes—Charles E. Gibson—Emerson, 152 p., illus., \$2.95. Practical guide for the amateur tells about construction and care of ropes and shows how to make lashings, whippings, slings, tackles and other rope work.

THE HOW AND WHY WONDER BOOK OF BUTTERFLIES AND MOTHS—Ronald N. Rood; Paul E. Blackwood, Ed.—Grosset, 48 p., illus. by C. I. and A. Koehler, \$1. For boys and girls.

THE HOW AND WHY WONDER BOOK OF FISH—Geoffrey Coe; Paul E. Blackwood, Ed.—Grosset, 48 p., illus. by C. I. and A. Koehler, \$1. Tells boys and girls the story of the gradual development of life in the sea and describes many varieties of fish and their habits.

LANGUAGE LABORATORY FACILITIES: Technical Guide for the Selection, Purchase, Use and Maintenance—Alfred S. Hayes—OE (GPO), 119 p., illus., paper, 50¢. Discussion and evaluation of the use of electromechanical devices as aids in modern foreign language study.

MAGIC MIXTURES: Alloys and Plastics—Philip B. Carona—Prentice-Hall, 64 p., illus. by Peter P. Plasencia, \$2.95. For boys and girls.

MARGIN OF SAFETY—John Rowan Wilson—Doubleday, 258 p., \$4.95. A remarkably lucid account of the development of polio vaccines written by a British physician-surgeon, with historical background of the conquest of this disease.

MARINER: Mission to Venus—Harold J. Wheelock, foreword by W. H. Pickering—McGraw, 118 p., illus., paper, \$1.45. Prepared for NASA by the staff of the Jet Propulsion Laboratory, California Institute of Technology.

THE MOON: New World for Men—Martin Caidin—Bobbs, 406 p., illus., \$5.95. Describes the gigantic effort of the U. S. program to land two men on the moon, a 40 billion dollar venture involving painstaking preliminary research.

THE MOUTAN OR TREE PEONY—Michael Haworth-Booth—St. Martins, 106 p., photographs, \$3.95. A guide to the cultivation of this spectacular flowering shrub.

MULTI-COMPARTMENT ANALYSIS OF TRACER EXPERIMENTS—Hiram E. Hart, Ed.—N. Y. Acad. of Sciences, Annals, Vol. 108, Art. 1, 338 p., illus., paper, \$6. Among other topics this volume discusses linear network theory, strontium and calcium metabolism, flow diagrams, and erythrokinetics.

NATURE AND SCIENCE: Pilot Issue No. 1/March 1963—Roy A. Gallant, Ed.—Nat. Hist.

YOUR HAIR

ITS HEALTH, BEAUTY AND GROWTH
BY HERMAN GOODMAN, M.D.

A medical specialist tells you what you can and cannot do to save and beautify your hair, stimulate healthier hair growth, and deal with many problems, as dandruff—gray hair—thinning hair—care of the scalp—baldness—abnormal types of hair—excessive oiliness—brittle dryness—hair falling out—infection—parasites—hair bygiene—glands—diet—coloring—and myriad other subjects concerning hair.
"Discusses the many problems of hair retention, regrowth and removal."
—SCIENCE NEWS LETTER.
287 PAGES—Profusely Illustrated! Price \$3.95, postfree. 10-day Money-back Guarantee. EMERSON BOOKS, INC., 251 W. 19th Street, Dept. 747-M, New York 11, N. Y.

Press (Doubleday) for Am. Mus. of Natural Hist., 16 p., illus., paper, bi-weekly, Sept. to May, special summer issues, subscriptions direct from publisher, Garden City, N. Y., teacher edition \$3 per year; students \$1.20 each for 10 or more subscriptions to same address. Elementary grade level.

NAVAL ARCHITECTURE OF PLANING HULLS—Lindsay Lord—Cornell Maritime, 3rd ed., 319 p., illus., \$6. Sets forth results of research on planing hulls, including the use of new materials such as reinforced plastic construction, and built-in and block unicellular flotation.

1-2-3-AND THE MOON: Projects Mercury, Gemini, and Apollo of America's Manned Space Flight Program—National Aeronautics and Space Administration—GPO, 28 p., illus., paper, 25¢. Information for students and general public.

OUTLINE OF HUMAN GENETICS—L. S. Penrose—Wiley, 2nd ed., 166 p., illus., \$3.50. The facts of human genetics in nontechnical terms for the adult reader.

PESTICIDE HANDBOOK 1963—Donald E. H. Frear—College Science Publishers, 15th rev. ed., 312 p., \$3.50; paper \$2.50. Lists names, active ingredients and manufacturers of 9,487 insecticides, fungicides, rodenticides, herbicides and other agricultural chemicals.

PHYSIOLOGICAL PHARMACOLOGY: A Comprehensive Treatise, Vol. I: The Nervous System, Part A: Central Nervous System Drugs—Academic Press, 703 p., illus., \$22. First of 10-volume definitive account of the experimental evidence and theoretical interpretations upon which pharmacodynamics is based.

PROCEEDINGS OF THE 1963 HEAT TRANSFER AND FLUID MECHANICS INSTITUTE—Anatol Roshko, Bradford Sturtevant and D. R. Bartz, Eds.—Stanford Univ. Press, 288 p., illus., \$8.75. Proceedings of conference held at the California Institute of Technology, June 12, 13 and 14, 1963.

THE RISK TAKERS—Huge McLeave—Holt, 208 p., photographs, \$4.50. The moving and technically informed story of the dramatic steps in the pioneering work of modern heart surgery.

SAMPLING OPINIONS: An Analysis of Survey Procedure—Frederick F. Stephan and Philip J. McCarthy—Science Eds., 451 p., paper, \$2.45. Non-mathematical treatment of subject, using concrete examples from actual research experience to illuminate important problems.

SCIENCE IN PROGRESS—Wallace R. Brode, Ed.—Yale Univ. Press, 13th ed., 305 p., illus., \$7.50. Lectures range from a discussion of "Science in the Sixties" to "Biophysical Approaches to Taste."

SEASONAL ACTIVITY AND ECOLOGY OF THE AVIFAUNA OF AN AMERICAN EQUATORIAL CLOUD FOREST—Alden H. Miller—Univ. of Calif. Press, 74 p., photographs, paper, \$1.50. Emphasis in this field study was on determining the breeding seasons of birds at latitudes near the equator.

TEXTILE CHEMISTRY, Vol. I: The Chemistry of Fibres—R. H. Peters—Elsevier Pub. Co. (N. Y.), 477 p., illus., \$14. Concerned with the origin, preparation and chemical constitution of the fiber-forming polymers and of the natural fibers.

TOOLS OF THE SCIENTIST—Rhoda Goldstein—Prentice-Hall, 72 p., illus. by Lewis Zacks, \$2.95. For young boys and girls.

TRANSPLANTATION, Vol. I, No. 1—P. B. Medawar, L. Brent, H. Conway and others, Eds.—Williams & Wilkins, 148 p., illus., paper, \$3; quarterly, annual subscription \$10. New Journal devoted to transplantation research, graft-versus-host development, transfer of tolerance and related subjects.

UNDER THE MEDITERRANEAN: Marine Antiquities—Honor Frost—Prentice-Hall, 278 p., photographs, illus., \$6.95. About the problems, findings and technical aspects of wreck excavations in deep waters off the coasts of Byzantium and southern France.

UNDERSTANDING SCIENCE IN THE SPACE AGE: A National Symposium—Nisson A. Finkelstein, Chmn.—Rochester Museum of Arts & Sciences, 36 p., illus., paper, send 50¢ direct to publisher, 657 East Ave., Rochester 7, N. Y. Discussions and addresses by scientists, writers and industrialists, evaluating ways in which education, museums and mass media can contribute to the public's understanding of science today.

THE URBAN CONDITION: People and Policy in the Metropolis—Leonard J. Duhl, Ed., with John Powell—Basic Bks., 410 p., \$10. A symposium of sociologists, biologists, city planners, public health officials, educators, psychiatrists and psychologists, considering the mental health of our urban society.

WHO NEEDS PEOPLE?—Robert E. Cubbedge—Luce, R. B. (McKay), 114 p., \$3.25. An informed journalistic review of the impact of automation and technological unemployment.

WILDLIFE TEAMS—Natalie Friendly—Prentice-Hall, 62 p., illus. by Edna Miller, \$2.95. Describes mutually useful relationships among animals, for young boys and girls.

WHO DO YOU THINK YOU ARE? The Story of Heredity—Marguerite Rush Lerner—Prentice-Hall, 64 p., illus. by Polly Bolian, \$2.95. For ages 9-12.

• Science News Letter, 83:396 June 22, 1963

The Battery That's Used in Guided Missiles Now Released as Government Surplus

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Sintered-plate Nickel-Cadmium alkaline storage batteries designed for "NIKE" Missile and now surplus due to design change. A lifetime battery with no known limit of service (over 5000 recharges on test without loss of capacity). Other features: Virtually indestructible, compact & lightweight, withstands heavy shock and vibration. Flat voltage curve during discharge retains charge year or more, high discharge rate up to 50 amps. for this cell, no corrosion fumes to harm clothing or equipment, spill-proof construction, discharge in any position, indefinite storage without deterioration, operates in temperatures — 60°F to +200°F. Each cell is approx. 4 ampere hour capacity. Nominal voltage per cell is 1.2 volts. (A 6 V. battery requires 5 cells.) Cell size 6" H. x 2" W. x 1/2" T. Wt. 6 oz. ea. Uses Potassium-Hydroxide (30%) electrolyte. Negligible loss during lifetime service. Add only distilled water once a year. A fraction of Government cost. Used Test Cells... \$1.59 ea. Postpaid Brand New Cells... \$2.49 ea. Postpaid 30 A. H. Motor Starting Cells—Nickel-Cad. steel cased with 1/2" screw terminals for mom. current drains to 1000 amps. Size 8 1/2" H. x 3" W. x 1 3/16" T. Wt. approx. 3 1/2 lb. Need no filling. New cells... \$5.95 ea. (not shipped prepaid) Used Cells... \$2.95 ea. (not shipped prepaid) All cells guaranteed to your satisfaction or money refunded (less postage).

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