# **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.

ADVANCES IN BIOLOGICAL AND MEDICAL PHYSICS, Vol. VII—Cornelius A. Tobias and John H. Lawrence, Eds.—Academic, 362 p., illus., \$10. Discusses among other research P<sup>22</sup> decay in bacterial viruses and the physiological BIOLOGICAL AND effects of nuclear radiations on the central nervous system.

ALTERNATING-CURRENT CIRCUITS—Russell M. Kerchner and George F. Corcoran—Wiley, 4th ed., 602 p., illus., \$8.75. Text for introductory course, includes material on topology, duality, and the pole-zero method of circuit analysis.

ARCHAEOLOGISTS AND WHAT THEY DO-Robert J. Braidwood—Watts, F., 180 p., \$3.95. Archaeologist informally discusses his profession, giving an account of actual expedition to Iran.

ARTHRITIS AND FOLK MEDICINE-D. C. Jarvis —Holt, 179 p., paper, \$2.95. Doctor presents what he learned from Vermont folk medicine about simple treatments for arthritis.

BASIC SCUBA: Self-Contained Underwater Breathing Apparatus—Fred M. Roberts, fore-word by Edgar End—Van Nostrand, 386 p., illus., \$8.50. Text on the operation, maintenance and safe use of all types of diving equipment.

CALCULUS AND ANALYTIC GEOMETRY. Part 1: Functions of One Variable and Analytic Geometry. Part 2: Vectors and Functions of Several Variables—George B. Thomas, Jr.—

SAVE on everything in stereo hi-fi and electronics ALLIED send for the 1961 electronics *ALLIED* 1961 CATALOG ALLIED RADIO 444-PAGES • WORLD'S BIGGEST. Write today for the leading Electronics Catalog. World's largest selection, including products and values available only from ALLIED. SAVE ON: values available only from ALLIED. SAVE ON:

• Everything in Hi-Fi Music Systems & Components • Biggest Selection of Hi-Fi Cabinetry

• Exclusive Knight® Super-value Steree •
Knight-Kits®—Best in Build-Your-Own HiFi • Tape Recorders and Phono Equipment

• Everything in Electronic Parts, Tubes, Transistors, Test Equipment, Amateur Gear, P.A.
Systems, TV Accessories, Tools, Books. Save most at ALLIED. Write for FREE 1961 Catalog today! only \$2 down on orders up to \$50 **ALLIED RADIO** free ALLIED RADID, Dept. 176-J 100 N. Western Ave., Chicago 80, III. catalog

☐ Send FREE 1961 ALLIED Catalog.

Zone\_

State

Address

Addison-Wesley, 3rd ed., 674 p., 290 p., \$6, \$4.75. For students of science and engineering.

CHRISTIANITY AND THE SCIENTIST-Ian G. Barbour-Assn. Press, 123 p., \$2.50. The author, a physicist, considers the position of the scientist between two areas of loyalty: dedication to science and commitment to God.

Countdown for Decision-Maj. General John B. Medaris with Arthur Gordon-Putnam, 303 p., photographs, \$5. Review of the Army's past and future space and missile program.

DICTIONARY OF AUTOMATIC CONTROL-Robert J. Bibbero, foreword by Theodore K. Steele— Reinhold, 282 p., \$6. Condensed discussion of 500 terms, including applications and related subjects, with classified index of major subjects.

A DICTIONARY OF LIFE IN BIBLE TIMES-W. Corswant, completed by Edouard Urech, transl. from French by Arthur Heathcote, foreword by Andre Parrot—Oxford Univ. Press, 309 p., illus. by E. Urech, \$6.50. Reference work on Biblical archaeology and aspects of ancient Eastern life mentioned in the Bible.

Electronics for the Beginner—J. A. Stanley—Bobbs, 190 p., illus., \$3.95. Basic methods of electronics applied to the building of progressively more difficult equipment, such as transistors and pocket radios.

ELECTRONICS FOR YOUNG PEOPLE—Jeanne Bendick—McGraw, 4th ed., 190 p., illus., \$3.50. While retaining the material on electronic principles, new edition gives also account of the latest techniques and equipment.

THE ENGINEER'S VEST POCKET BOOK-W. A. Thomas, H. A. Spalding and Zarko Pavlovich-Ottenheimer, 2nd rev. ed., 192 p., illus., 90¢. Reference for engineers and students.

A FIELD LIST OF BIRDS OF THE DETROIT-WINDSOR REGION—Ralph A. O'Reilly, Jr., Neil T. and Alice H. Kelley—Cranbrook Inst. of Science, 40 p., charts, paper, 50¢. Provides Science, 40 p., charts, paper, 50¢. Provides current list of 286 species of birds with graphic presentation of abundance and season of their occurrence.



#### **EYE MIRROR Magnifies 5X**

Permits direct viewing of the capillaries in your own eyes or for treating crsts. Greatly belps remove dust from the eye or unwanted hair from the area, also for eye make-up. Front-surfaced mirror of finest optical glass polished to highest perfection. Aluminized. Brilliant reflectivity. Use the control of the control o

HARRY ROSS Scientific & Lab Apparatus

### For Math Buffs—

THE MATH ENTERTAINER is the title of a brand new treasure trove of mathematical teasers, ticklers, traps, and twisters, gems, jests and gyrations—by the hundred!—to beguile, bemuse, and bewilder (perchance—whisper it softly!—to instruct).

Includes: math history, symbols, circles, triangles, measures, moneys, series, permutations, abbreviations, roots and powers, math instruments, ratios, arrangements, fractions, stapes, "limerick" problems, true-and-false, identifications, logarithms, associations, statistics, calculus "cocktails," crosswords, figures from figures, arches, codes, problems and puzzles, etc., etc., some of the posers will seem easy, others hard, some will amuse, others exasperate—but none are dull. Answers and complete explanations are given for all problems.

#### THE MATH ENTERTAINER

By Philip Heafford \$2.95 Postfree. 10-Day Money Back Guarantee. EMERSON BOOKS, Inc., Dept. 71-M 251 West 19 Street, New York 11

THE FIRST COMERS: Indians of America's Dawn — Alice Marriott — Longmans, 246 p., illus. by Harvey Weiss, \$4.50. Brings together for the general reader what has been discovered about the lives of the earliest American Indians, and tells how this knowledge was assembled.

GENERAL BIOLOGY LABORATORY GUIDE-A. Paul Davisson—Burgess, 2nd ed., 165 p., illus., paper, \$3.50. Designed to help beginning students in their study of biological materials.

GEOMETRY-Charles F. Brumfiel, Robert E. Eicholz and Merrill E. Shanks—Addison-Wesley, 288 p., illus., \$4.75. Text designed for one-year course in high school, contains supplementary material on analytic geometry, locus, solid geometry and philosophy of mathematics.

GRASSHOPPERS AND CRICKETS-Dorothy Childs Hogner-Crowell, 62 p., illus. by Nils Hogner, \$2.50. Shows young naturalists how to find and observe these interesting little creatures.

How Much and How Many: The Story of Weights and Measures — Jeanne Bendick — McGraw, 2nd ed., 192 p., illus. by author, \$2.95. Amusingly illustrated, introduces young people to the science of weights and measures, including measurements in rocketry and space exploration.

INTERNATIONAL REVIEW OF NEUROBIOLOGY, Vol. 2-Carl C. Pfeiffer and John R. Smythies, Eds.—Academic, 410 p., illus., \$11. Covers the whole field of neurobiological research, as well as work in neurology and psychiatry.

THE LOWER ANIMALS: Living Invertebrates of the World—Ralph Buchsbaum and Lorus J. Milne—Doubleday, 303 p., 315 photographs, 144 in color, \$12.50. Beautifully illustrated natural history of invertebrates (excepting insects), arranged systematically, group by by group, from primitive forms to the most specialized.

MAGNETIC AMPLIFIERS: Principles and Applications—Paul Mali—Rider, J. F., 101 p., illus., paper, \$2.45. Fundamental concepts in concise form for students and technicians.

THE MOUND BUILDERS-William E. Scheele-World Pub., 62 p., illus. by author, \$2.50. Introduces young reader to the prehistoric Hope-well Indians of the Ohio Valley.

NATURAL RESOURCES IN LOW INCOME COUNTRIES: An Analytical Survey of Socio-Economic Research—Jaleel Ahmad, foreword by Milton Esman—Univ. of Pittsburgh Press, 143 p., paper, \$2.50. Extensively annotated bibliography of recent resources studies in underdeveloped countries, with geographical index.

THE NEUTRAL SPIRIT: A Portrait of Alcohol Berton Roueche—Little, 151 p., \$3.50. Reporter presents readable and short historical study of man's use of alcohol.

Non-relativistic Quantum Mechanics: An Introduction—R. M. Sillitto—Quadrangle Bks, 230 p., \$7.50. Advanced undergraduate text, approaches quantum mechanics formally rather than historically, and makes considerable use of matrix methods.

PHILOSOPHICAL ANTHROPOLOGY AND PRACTICAL POLITICS—F. S. C. Northrop—Macmillan, 384 p., \$6.50. Scholarly examination of the complexities of the various cultures with which American foreign policy is dealing. Points out practical methods which discoveries in neurophysiological psychology and in cultural anthropology now offer.

#### **HEAR GERMAN POETRY!**

Lotte Lenya, famed star of European and American stage, reads great poetry of Goethe, Rilke, Heine, Schiller, 30 others, from Minnesingers to present. "Invitation to German Poetry." 50-minute (12", 33 %) hi-fi recording, 165-page illustrated book, full record text, English translation, \$4.95. Money-back guarantee. Dept. SNL. DOVER, 180 Varick St., N. Y. 14, N. Y.



Physics for Students of Science and Engineering, Part II—David Halliday and Robert Resnick—Wiley, 528 p., illus., \$6. Textbook designed to fit physics courses of various lengths.

Physics for the Inquiring Mind: The Methods, Nature and Philosophy of Physical Science—Eric M. Rogers—Princeton Univ. Press, 778 p., illus., \$8.50. General reading, problems and laboratory instructions for a oneyear course in physics to non-physics majors. Mainly concerned with dynamics, planetary astronomy, molecular theory, parts of electricity and magnetism, and atomic physics.

PLENTY OF FISH—Millicent Selsam—Harper, 63 p., illus., by Erik Blegvad, \$1.95. A very simple science reader for first- and second-

POLYSTYRENE—William C. Teach and George C. Kiessling—Reinhold, 176 p., illus., \$5. Provides a simplified introduction to the chemistry, properties, manufacture and uses of polystyrene.

Research Highlights in Aging, 1959—Robert W. Palmer and others—Nat. Inst. of Health, 52 p., paper, single copies free upon request direct to publisher, Div. of General Medical Sciences, Bethesda 14, Md. Selected papers on research projects in aging.

Science Survey 1—A. W. Haslett and John St. John, Eds, foreword by Sir George Thomson—Macmillan, 359 p., illus., \$5.75. Written for the general reader, by leading experts in the main branches of science, survey includes 26 chapters on recent advances in science, ranging from photons to galactic distances.

SEVEN INTO SPACE: The Story of the Mercury Astronauts—Joseph N. Bell—Pop. Mechanics, 192 p., photographs, \$3.95. The story of Project Mercury, its background and growth, selection and training of the astronauts, and the development of space equipment.

THE SOVIET REVIEW: A Journal of Translations, Vol. I, No. 1-Myron E. Sharpe, Ed.-Int. Arts & Sciences Press, 64 p., paper, 60¢; monthly, \$6 per year. Articles from Soviet periodicals in the fields of the arts, social analysis and science. This issue contains "A Soviet View of Einstein" by I. E. Tamm.

STATUS OF ELECTRONIC MICROMINIATURIZA-TION, 1960—Norman J. Doctor — Diamond Ordnance Fuze Labs (OTS), 28 p., illus., paper, 75¢. Survey of latest techniques.

STRANGE TRAVELERS-Sigmund A. Lavine-Little, 150 p., illus. by Gloria Stevens, \$2.95. Tells young readers interesting facts about animal migrations.

TEAR DOWN TO BUILD UP: The Story of Building Wrecking-Jean Poindexter Colby-Hastings House, 56 p., illus. by Joshua Tolford, \$2.95. Informs boys and girls about the methods of demolition used in the wrecking jobs they see in city streets.

UNDER THE SEA - Maurice Burton - Watts, F., 256 p., illus. by Maurice Wilson, \$4.95. Brief survey of marine life, plants and animals, zones of the ocean and methods of investigation, with glossary. Marine science for the general reader.

Unseen Forces—A. O. Chesters—Educ. Supply Assn. (Taplinger), 2nd ed., 88 p., illus., paper, \$2.50. British import for children explains natural laws behind some everyday phenomena such as inertia.

WALT DISNEY'S WEECHA THE RACCOON: A Fact-Fiction Nature Story-Rutherford Montgomery—Golden Press, 124 p., illus. by L. T. Dresser, \$2.50. For young readers.

WALTER CHRYSLER: Boy Machinist-Ethel H. Weddle-Bobbs, 192 p., illus. by Al Fiorentino, \$1.95. Tells young boys about the childhood and apprenticeship of one of the great manufacturers of automobiles.

• Science News Letter, 78:188 September 17, 1960

### "How-to" Books for Young Scientists

Let's Explore with the Electron. A. Bender. Electrostatics. Electromagnetism. Plating. Resistance. Energy from light and heat. 51 projects: Van de Graaff generator, electric motor, potato battery, electrophorus, telegraph, photoelectric relay, thermopile, light compass, etc. 128 pages. 151 illustrations.

Let's Explore Chemistry.\* Feifer. Beginning theory. Over 200 safe experiments. Probe magic of water, air, acids, bases. Explore new worlds of calcium, carbon, metals. Understand and use formulas. Atoms, molecules, and nuclear energy. Laboratory techniques. Simple tests for food, drugs, synthetics, adulterations. Chromatography. 128 pages. 123 illustrations.

Hunting with the Microscope.\* Johnson, Bleifeld. How to use scope. Preparing slides, stains, cultures. Cells, molds. Tissue regeneration. Live blood stream under scope. Photomicrographs with your camera. Detecting fingerprints, forgeries, blood stains, adulterations. 136 pages. 58 illustrations.

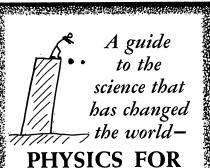
Discover the Stars.\* Johnson, Adler. Astronomy made simple. Secrets of sun's energy. Radio astronomy. Navigation. Calendar. Tides. Make your own sextant, sundial, clinometer, Vanguard satellite model. Photograph star trails. Map solar system in umbrella. Latitude, longitude. 152 pages, 91 illustrations.
\*On selected list of the American Association for the Advancement of Science

**ELECTRON** 

Send \$1.00 for each book to:

SENTINEL BOOKS PUBLISHERS, INC. 112 East 19th Street, New York 3, N. Y.





## THE INQUIRING **MIND**

The Methods, Nature, and Philosophy of **Physical Science** 

by ERIC M. ROGERS

Based upon the unusual pro-D gram in elementary physics developed at Princeton University for undergraduates not specializing in science, this engrossing book will prove equally valuable to the student and the educated layman who want to dip into the subject. Over 800 diagrams. \$8.50

Order from your bookstore, or



Princeton **University Press** Princeton, New Jersey

