

# 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.

**ALGEBRAIC CURVES**—Robert J. Walker—Dover, 201 p., paper, \$1.60. Reprint (1950). To serve as a starting point for the study of algebraic geometry.

**BASIC INDUSTRIAL ELECTRONIC COURSE**—Alfred Haas—Gernsback Lib., 224 p., illus., \$5.95; paper, \$4.10. Author uses practical approach, suitable for the experimenter and technician.

**BIOGRAPHY OF THE UNBORN**—Margaret Shea Gilbert—Hafner Pub. Co., rev. ed., 160 p., illus., \$3.50. Non-technical account of the human embryo and fetus in its month-by-month development.

**THE CERRO COLORADO SITE AND PIT-HOUSE ARCHITECTURE IN THE SOUTHWESTERN UNITED STATES PRIOR TO A.D. 900**—William Rotch Bullard, Jr.—Peabody Mus., Harvard Univ., 205 p., 16 plates, illus., paper, \$6.50. Study reveals the architectural and background story of this unique type of below-ground structures.

**CONTEMPORARY GEOMETRY**—Andre Delachet, transl. from French by Howard G. Bergmann—Dover, 94 p., paper, \$1. Written to give the reader insight into the current directions of research in geometry such as the notion of groups, abstract spaces and topology.

**CRYSTALS IN YOUR FUTURE: SRI** Journal, Vol. 6, No. 3—Frank Halden and others—Stanford Research Institute, 88 p., illus., \$1 direct to publisher, Menlo Park, Calif. Contains papers by six experts exploring the progress and outlook in crystal technology.

**DARWIN AND THE MODERN WORLD VIEW**—John C. Greene—New Am. Lib., 126 p., paper, 60¢. Reprint (1961), explores the impact of Darwin's evolutionary biology on the religious and intellectual thought of the past century.

**EDUCATIONAL ACHIEVEMENTS OF THIRTEEN-YEAR-OLDS IN TWELVE COUNTRIES**—Arthur W. Foshay and others—UNESCO (N. Y.), 68 p., \$1.50; paper, \$1. Results of an international research project, 1959-61, suggesting patterns of intellectual attainment in basic subjects under varying conditions.

**FACTORS INFLUENCING STRONTIUM-90 IN MILK** from the Brainerd, Minn., Milkshed—Minnesota Department of Health and University of Minnesota—Public Health Service, Pub. No. 999-R-1, 73 p., illus., paper, single copies free upon request direct to Public Inquiries Branch, PHS, U. S. Dept. of H.E.W., Washington 25, D. C. Study covers eight-month period investigating consistent farm-to-farm differences in SR-90 concentrations

**FRONTIERS OF SCIENCE AND PHILOSOPHY**—Carl G. Hempel and others, Robert G. Colodny, Ed.—Univ. of Pittsburgh Press, 288 p., \$7.50. Papers by noted philosophers of science on subjects such as explanation in science and history, the nature of time, and problems of microphysics.

**GEM CUTTING: A Lapidary's Manual**—John Sinkankas—Van Nostrand, 2nd ed., 297 p., illus., \$11.75. Completely revised, includes information on advances in tools and equipment, shows in detail the techniques that will give the gem cutting hobbyist the best results.

**GOMA: The Gorilla Baby**—Ernst M. Lang, transl. from German by Edmund Fisher and Cornelia Schaeffer—Doubleday, 125 p., 56 photographs,

\$3.95. An intimate account of the earliest development of a gorilla born in a Swiss Zoo and raised as a member of the zoo director's family.

**THE GREAT FLYING SAUCER HOAX: The UFO Facts and Their Interpretation**—Coral E. Lorenzen—William-Frederick Press, 257 p., illus., \$4.45. Another in a series of books written to prove the existence of flying saucers, by the director of APRO.

**HIGHER EDUCATION AND THE FEDERAL GOVERNMENT: Programs and Problems**—Charles G. Dobbins, Ed.—Am. Council on Educ., 126 p., paper, \$2. Among subjects covered are educational values and national purposes, the federal research endeavor, and federal programs of international education.

**AN INTRODUCTION TO PROJECTIVE GEOMETRY**—R. M. Winger—Dover, 443 p., paper, \$2. Revised and corrected republication of work first published in 1923.

**MOLECULES TODAY AND TOMORROW**—Margaret O. Hyde—McGraw, 143 p., illus. by Mildred Waltrip, \$3.25. Describes for young people molecules in action in solids, liquids and gases, the function of DNA and RNA, and some experiments with molecules.

**THE MYTH OF SIMPLICITY: Problems of Scientific Philosophy**—Mario Bunge—Prentice-Hall, 239 p., \$7.95. Concerned with clarifying some of the complex concepts of both philosophy and science, such as conceptual analysis, analyticity, truth, level and simplicity.

**ODOR AND OLFACTION: A Bibliography, 1948-1960**—K. M. Michels and others—Perceptual and Motor Skills, 54 p., paper, \$3. A list of references, books, patents and articles from professional journals, grouped by subject matter.

**PROFILES OF THE FUTURE: An Inquiry into the Limits of the Possible**—Arthur C. Clarke—Harper, 234 p., \$3.95. Speculations about future possibilities and limitations of technology, such as gravity control, global library, climate control and artificial life.

**THE QUICK TEST (QT): Provisional Manual**—R. B. Ammons and C. H. Ammons—Psychological Reports, 52 p., paper, \$2.50. Describes test for quick screening of verbal-perceptual intelligence in practical situations.

**RESULTS OF THE THIRD U. S. MANNED ORBITAL SPACE FLIGHT, OCTOBER 3, 1962**—John H. Boynton and others—NASA (GPO), 120 p., illus., paper, 70¢. Presents discussion of performance data, and an analysis of the medical aspects of the MA-8 orbital flight by Astronaut Schirra.

**SCIENCE MODEL MAKING**—Robert R. Hopwood, adapted for American use by E. E. Suckling—Macmillan, 208 p., illus., \$4.95. Shows boys and girls how to make things, from a periscope and a sextant to working model of hydroelectric power plant.

**SOVIET SCIENCE OF INTERSTELLAR SPACE**—S. Pikelner, ed. by V. G. Fesenkov, transl. from Russian by Mary Zirin—Philosophical Lib., 230 p., \$7.50. On observations of planetary and diffuse nebulae, interstellar gas and magnetic fields in the galaxy.

**THEY STUDIED MAN**—Abram Kardiner and Edward Preble—New Am. Lib., 255 p., photographs, paper, 75¢. Reprint (1961) of an analysis of the work of ten major scientists and their contributions to the development of social anthropology.

**THIS IS OUTER SPACE**—Lloyd Motz—New Am. Lib., 191 p., illus. by Phil Santry, photographs, paper, 60¢. Reprint (1960). Explains in layman's language the fundamental theories whose application to observational data have given rise to modern astronomy.

**TOPICS IN PHYSICS** from the standpoint of Generalized Thermodynamics—Joseph Louis Finck—

Bookman Associates, 264 p., diagrams, \$7.50. Covers classic thermodynamics, points out its limitations, including critical examination of Newtonian mechanics, electrostatics and statistical mechanics.

**THE VALLEY: Meadow, Grove and Stream**—Lorus J. Milne and Margery Milne—Harper, 178 p., photographs by authors, illus. by G. Don Ray, \$4.50. Describes a community of land and water with its balanced life of plants and animals.

**WATER ATLAS OF THE UNITED STATES: Basic Facts About the Nation's Water Resources**—David W. Miller, James J. Geraghty and Robert S. Collins—Water Information Center, N. Y., 82 p., 40 plates, \$6.95. Portrays, by means of maps, the effects of nature and man on the availability, movement and eventual disposal of the country's freshwater resources.

**WILDLIFE'S TEN-YEAR CYCLE**—Lloyd B. Keith—Univ. of Wis. Press, 201 p., graphs, \$6. Author records and evaluates the divergent schools of thought regarding the 10-year cycle in wildlife populations south of the Arctic.

• Science News Letter, 83:124 February 23, 1963

## GENERAL SCIENCE

### Heavy Water Can Be Rented by Researchers

► NOW YOU TOO can rent heavy water, or deuterium oxide as it is known in the laboratory.

For the first time, heavy water is being offered on a rental basis to schools and researchers in a low concentration by the Bio-Rad Laboratories in Richmond, Calif. The liquid is available in special bottle sizes, at a fraction of the purchase price.

This means that scientists or teachers who need heavy water for only a limited time in their experiments can lease the water and then return it to the California laboratories. Cost of the material is determined by the length of time it is kept and by the purity of the water when it is returned.

• Science News Letter, 83:124 February 23, 1963

## Do You Know?

In an animal, a total body dose of X-radiation transforms a fraction of the water contained in cell bodies and body fluids into *hydrogen peroxide*.

Cadmium selenide has excellent properties as a *photoconductor*, a material which is an insulator in the dark but a good electrical conductor when illuminated.

The mountain *beaver*, a living fossil, is being studied for clues to human kidney disease.

Indications are that the *Nile River* was nearly dry 15,000 to 20,000 years ago.

Out of nearly 200,000,000 people in Africa north of the Union of South Africa and south of the Sahara, probably 90% are *illiterate*.

• Science News Letter, 83:124 February 23, 1963

## PAPER FOLDING MADE EASY!

Create scores of beautiful, unusual, amusing paper objects—toys, decorations, etc., with clearest introduction to Japanese art of origami. "Paper Folding for Beginners," Rigney, 95pp. \$1.00 + 10¢ postage. Money-back guarantee. Dept. SNL, Dover, 180 Varick St., N.Y. 14, N.Y.

## A Treasury of JEWELS and GEMS

by MONA CURAN

JUST PUBLISHED! A mine of fascinating information; crammed with priceless anecdotes; written in lively, colorful style, yet *intensely practical*: here is a book to delight and reward gem-and-jewel buffs everywhere.

Ranges from stones-in-the-rough to the value, choice, and care of finished jewels.

- Includes: The five basic precious gems • Gemstones (semi-precious) • Rings • The bracelet • The necklace • The earring • Brooches and clips • Tiaras and hair ornaments • Regency and Victorian jewelry • Some royal jewels • The Crown Jewels of England • Birthstones • Setting and cutting gems • Some famous gems and their history • On choosing jewels • Caring for your jewels • 'Jewel' anniversaries.

A book to rivet the attention of amateur and "pro" alike. Now you can make it yours. WITH 16 FULL-PAGE PHOTOGRAPHIC PLATES

\$4.50 Postfree • 10-Day Money-Back Guarantee

ORDER NOW!

EMERSON BOOKS, Inc., Dept. 651-M  
251 W. 19 St., New York 11

## Notice to SCIENCE CLUBS

Your Science Club can be the Exclusive Agents for Engineer's Slide Rules at your school. Not only will your fellow students be able to purchase Engineer's slide rules at 25-40% Savings—but your club will draw a commission on each sale. For complete information and Engineer's catalog send name of Science Club, name of Sponsor, name and address of school on a post card today to:

### Engineer's Slide Rules

1200 Columbia Road, Joanna, South Carolina