

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.

AERONAUTICS AND ASTRONAUTICS: An American Chronology of Science and Technology in the Exploration of Space, 1915-1960—Eugene M. Emme, foreword by Hugh L. Dryden—*NASA (GPO)*, 240 p., \$1.75 Historical outline, followed by chronicles of satellites and space probes, world airplane records, balloon flights and awards.

AIR POLLUTION—K. Barker and others—*Columbia Univ. Press*, 442 p., illus., \$10. Historical review and technical papers reflecting current world trends in air pollution research. Monograph published on behalf of WHO for the benefit of public health officials.

ALL ABOUT THE SYMPHONY ORCHESTRA AND WHAT IT PLAYS—Dorothy Berliner Commins, foreword by Thomas Scherman—*Random House*, 137 p., illus. by Warren Chappell, photographs, \$1.95. For the young who are interested in music.

ANYONE CAN LIVE OFF THE LAND—James Ralph Johnson—*Longmans*, 121 p., illus. by Edward Shenton, \$2.95. A practical book about survival in the wilderness.

ATTACK ON STARVATION—Norman W. Desrosier—*Avi Pub. Co.*, 312 p., illus., \$6.75. Food expert discusses diets, food resources, food storage and distribution, world food consumption patterns, technological breakthroughs and agricultural practices.

BESTIAIRE D'AMOUR—Jean Rostand, transl. from French by Cornelia Schaeffer—*Doubleday*, 128 p., illus. by Pierre-Yves Tremois, \$5.95. The eminent biologist's view of sex and love in the animal kingdom, handsomely illustrated.

BIRD DOCTOR—Katherine Tottenham—*Nelson*, 162 p., photographs, \$3. Describes personal experiences with taking care of various sick and injured birds.

THE BLUE OF CAPRICORN—Eugene Burdick—*Houghton*, 322 p., illus. by William Hoffman, \$4.95. Impressions of the South Pacific and the people who live there, fact and fiction.

CURRENT PROBLEMS IN ELECTROBIOLOGY—Dominick P. Purpura, Ed.—*N.Y. Acad. of Sciences, Annals*, Vol. 94, Art. 2, 323 p., illus., paper, \$3.50. Series of papers of a conference supported jointly with AAAS in December 1960.

EDUCATIONAL VALUES IN CLUB PROGRAMS—John A. Beaumont and George Sanders—*Off. of Educ. (GPO)*, 18 p., paper, 15¢. Basic principles to serve as guides in developing club activities.

ELECTRIC MACHINERY: The Dynamics and Statics of Electromechanical Energy Conversion—A. E. Fitzgerald and Charles Kingsley, Jr.—*McGraw*, 2nd ed., 568 p., illus., \$10.75. Reorganized text, gives emphasis to dynamic systems.

ELECTRONIC AMPLIFIER CIRCUITS: Theory and Design—Joseph Mayo Pettit and Malcolm Myers McWhorter—*McGraw*, 325 p., diagrams, \$9.75. Text and reference for advanced students and electronics engineers.

EXPLORATIONS IN SCIENCE: A Book of Basic Experiments—Harry Milgrom—*Dutton*, 127 p., illus. by Anne Marie Jaus, \$3. Clearly explained experiments using the simplest materials.

THE FOREST PEOPLE—Colin M. Turnbull—*Simon & Schuster*, 285 p., photographs, maps, \$4.95. Anthropologist's narrative about customs and everyday life of the Pygmies in the Congo among whom he lived for three years.

FUNDAMENTALS OF ALGEBRA: TMI-Grolier Self-Tutoring Course—Frank C. Gentry and Charlotte Yesselman, Eds.—*Teaching Materials Corp.*, 246 p., boxed., \$10. Loose-leaf course (6th to 9th grade), programmed for self-instruction at student's own speed.

JUNIOR SCIENCE BOOK OF ELEPHANTS—William D. Sheldon—*Garrard Press*, 65 p., illus. by Matthew Kalmenoff, \$2.25. Elementary reading level.

LOOK AT THE SKY!—Eric Sloane—*Duell*, 76 p., illus. by author, \$3.95. Describes the eventful journey of a cold air mass and how it creates weather in the United States.

MAGNETIC TAPE INSTRUMENTATION—Gomer L. Davies—*McGraw*, 263 p., diagrams, \$8.50. Guide to expert information on the techniques and equipment used for magnetic tape recording and reproduction of data, as distinguished from voice and music.

THE MAIN STREAM OF MATHEMATICS—Edna E. Kramer—*Fawcett*, 352 p., illus., paper, 75¢. Reprint of 1951 edition.

MENTAL AFTERCARE: Assignment for the Sixties—Emma Harrison—*Public Affairs Committee*, Pamphlet No. 318, 28 p., illus., paper, 25¢ direct to publisher, 22 E. 38th St., New York 16, N. Y.

Explains program of guided rehabilitation for the mentally ill within the community.

MICROBIOLOGY IN YOUR FUTURE—*American Society for Microbiology*, 20 p., illus., paper, single copies free upon request direct to publisher, 19875 Mack Ave., Detroit 36, Mich. Discusses the scope, the various areas of specialization and employment outlook in microbiology.

MODERN MAGNETISM—L. F. Bates—*Cambridge*, 4th ed., 514 p., illus., paper, \$2.95. Updated and revised by author, including much new work on ferromagnetic domains and magnetothermal phenomena.

MODERN SPACE SCIENCE—Frederick E. Trinklein and Charles M. Huffer—*Holt*, 550 p., illus., \$6.75. Treats the discoveries and principles upon which the conquest of space is built at high school level, assuming only one year of algebra.

THE NEW BIOLOGY: First Semester Study Guide—Ray Koppelman—*Addison-Wesley*, 144 p., illus., paper, \$2.50. Official guide for CBS-TV college of the air, emphasizing in outline those particulars necessary for an understanding of biology as a continuing study.

OUR EARTH: Geology and Geologists—Marian T. Place—*Putnam*, 191 p., illus. by R. Bartram, \$2.95. Explains to boys and girls what geology is and tells about some of the field trips of great pioneering geologists.

PHYSICAL MECHANICS—Robert Bruce Lindsay—*Van Nostrand*, 3rd ed., 471 p., diagrams, \$9.75. Intermediate course, stressing fundamental concepts and principles of mechanics and their use in all branches of physics.

PRINCIPLES OF LINEAR NETWORKS—Bernard Friedland, Omar Wing and Robert Ash—*McGraw*, 270 p., diagrams, \$8.95. Textbook for undergraduate work in electronics.

PRINCIPLES OF ORGANIC CHEMISTRY: An Introductory Text in Organic Chemistry—James English, Jr. and Harold G. Cassidy—*McGraw*, 3rd ed., 515 p., \$8.95. Full-year course stressing fundamental principles.

PSYCHOTHERAPY EAST AND WEST—Alan W. Watts—*Pantheon Bks.*, 204 p., \$4.50. Critical history of psychiatric interest in Eastern thought with a comparison of major forms of psychotherapy and techniques of the Eastern disciplines.

RECENT PROGRESS IN HORMONE RESEARCH, Vol. XVII: The Proceedings of the Laurentian Hormone Conference—Gregory Pincus, Ed.—*Academic Press*, 600 p., illus., \$14. Papers concerned with testis function, reproduction, aldosterone activity, neurohypophyseal physiology, and hormonal regulation of carbohydrate metabolism.

SCHOOL MATHEMATICS IN OEEC COUNTRIES: Summaries—*Organisation for European Economic Cooperation*, 116 p., paper, single copies free upon request direct from publisher, 1346 Conn. Ave., NW, Washington, D. C. Outline of existing programs of mathematics education in European countries, from Austria to Yugoslavia.

SYNTHESIS OF OPTIMUM CONTROL SYSTEMS—Sheldon S. L. Chang—*McGraw*, 381 p., diagrams, \$11.75. Intended for graduate course in advanced design techniques for high performance systems.

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