

# 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.

**ADAPTATION**—Bruce Wallace and Adrian M. Srb—*Prentice-Hall*, 113 p., illus., \$2.95; paper, \$1.50. Foundations of Modern Biology series.

**THE ADOLESCENT SOCIETY: The Social Life of the Teenager and Its Impact on Education**—James S. Coleman with John W. C. Johnstone and Kurt Jonassohn—*Free Press*, 368 p., diagrams, \$6.95. Author analyzes the social systems of ten high schools of widely varied communities.

**ANIMAL DIVERSITY**—Earl D. Hanson—*Prentice-Hall*, 116 p., illus., \$2.95; paper, \$1.50. Strives to give student and general reader a broad perspective of our present knowledge.

**ANIMAL DUNKIRK: The Story of Lake Kariba and "Operation Noah," the Greatest Animal Rescue Since the Ark**—Eric Robins and Ronald Legge—*Taplinger*, 188 p., photographs. \$4.50. Tells of the courageous game rangers who rescued animals from the rising waters behind the Kariba dam in Rhodesia.

**ATLAS OF THE UNIVERSE**—Br. Ernst and Tj. E. De Vries, transl. from Dutch by D. R. Welsh; H. E. Butler, Ed.; preface by H. A. Bruck—*Nelson*, 227 p., illus., \$9.95. Written by non-specialists for non-specialists, edited by astronomer, offers concise encyclopedia with many photographs and diagrams.

**BASIC CONCEPTS OF PHYSICS**—Chalmers W. Sherwin—*Holt*, 410 p., diagrams, \$6.50. Unified treatment of the five basic theories of physics at undergraduate level, only prerequisite is introductory calculus.

**BRAZIL: The Infinite Country**—William Lyttle Schurz—*Dutton*, 346 p., maps, \$6. Up-to-date survey of the largest country in the Western Hemisphere, its people and development, viewed by a historian.

**CAMPANULAS AND BELLFLOWERS IN CULTIVA-**

**TION**—H. Clifford Crook—*Blandford (St. Martins)*, 90 p., photographs, \$2.50. Introduces the general gardener to species most suitable for cultivation in borders, on rocks, under cover and in the wild garden.

**THE CHALLENGE OF THE SPACESHIP**—Arthur C. Clarke—*Ballantine Bks*, 189 p., paper, 50¢. Speculates on some of the technical developments we might expect in the age of manned space flight.

**CIVIL AIR REGULATIONS AND FLIGHT STANDARDS FOR PILOTS**—Aeronautical Staff—*Aero Pubs.*, 23rd ed., illus., \$4.50; paper, \$3.00. Up-to-date manual for pilots.

**COFFEE: Botany, Cultivation and Utilization**—Frederick L. Wellman—*Interscience*, 488 p., illus., \$13. Monograph covering all aspects of coffee, from early history, soils, climates, genetics, plantation planning, cultivation, to diseases, harvesting, processing and quality testing.

**COMBUSTION, FLAMES AND EXPLOSIONS OF GASES**—Bernard Lewis and Guenther von Elbe—*Academic Press*, 2nd ed., 731 p., illus., \$22. Presents advances in combustion research with major revisions in the subjects of combustion waves and of detonation processes.

**THE EFFECTIVENESS OF FILMED SCIENCE COURSES IN PUBLIC SECONDARY SCHOOLS**—W. James Popham and Joseph M. Sadnavitch—*Dept. of Educ. & Psychology, Kansas State College of Pittsburgh*, 66 p., tables, single copies free upon request direct to publisher, Pittsburgh, Kans. Describes experiment designed to evaluate the filmed physics and chemistry courses introduced in southeast Kansas schools.

**THE EVOLUTION OF MAN: A Brief Introduction to Physical Anthropology**—Gabriel Ward Lasker—*Holt*, 239 p., illus., \$3.50. Presents in outline physical anthropology as an integrated field for the study of primates, fossil man, human genetics, blood groups and growth patterns.

**EXPERIMENTAL CHEMISTRY**—Michell J. Sienko and Robert A. Plane—*McGraw*, 2nd ed., 271 p., illus., paper, \$3.50. Laboratory manual emphasizing the distinction between observation and interpretation of facts observed.

**FREUD AND PSYCHOANALYSIS**—C. G. Jung, transl. by R. F. C. Hull—*Pantheon Bks*, 376 p., \$5. Gives the substance of Jung's published writings on Freud and psychoanalysis between 1906 and 1916, with two later papers.

**THE FUTURE OF OUR CITIES**—Robert A. Futerman—*Doubleday*, 360 p., maps, \$4.95. Analyzes the elements that affect changes in urban

patterns and discusses the prospects of 17 individual metropolitan areas.

**GAMES OF STRATEGY: Theory and Application**—Melvin Dresher—*Prentice-Hall*, 184 p., \$9. Develops fully the mathematical theory of games of strategy and explores their application to a variety of decision problems.

**GEOMETRIC INEQUALITIES**—Nicholas D. Kazarinoff—*Random House*, 132 p., illus., paper, \$1.95. Simply stated geometric problems about maximum and minimum lengths and areas, book grew out of informal evening seminar for high school students.

**HEREDITY: An Introduction to Genetics**—A. M. Winchester—*Barnes & Noble*, 269 p., illus., paper, \$1.75. Outline of fundamental principles, for student and general reader.

**A HISTORY OF MEDICINE, Vol. II: Early Greek, Hindu and Persian Medicines**—Henry E. Sigerist—*Oxford Univ. Press*, 353 p., illus., \$11. Second, and last, volume of the late author's proposed eight-volume history of world medicine.

**HORSES: The Story of the Horse Family in the Modern World and Through Sixty Million Years of History**—George Gaylord Simpson—*Doubleday*, 323 p., illus., paper, \$1.45. Reprint with new preface by author.

**THE IMAGE OF LOVE: Modern Trends in Psychiatric Thinking**—Clemens E. Benda—*Free Press*, 206 p., \$5. Focus is on the ways in which love reveals man's nature, study is based on long experience with psychiatric counseling.

**IMPROVING MATHEMATICS PROGRAMS: Trends and Issues in the Elementary School**—M. Vere DeVault, Ed.—*Merrill*, 552 p., \$7.95. Collection of readings related to the strengthening of mathematics education during the early years.

**INTRODUCTION TO CHEMICAL ENGINEERING**—L. Bryce Andersen and Leonard A. Wenzel—*McGraw*, 364 p., illus., \$9.50. Surveys the profession of chemical engineering and the processes of the chemical industry.

**AN INTRODUCTION TO INEQUALITIES**—Edwin Beckenbach and Richard Bellman—*Random House*, 133 p., paper, \$1.95. Written by professional mathematicians to make theory of inequalities interesting and understandable to high school students and laymen.

**AN INTRODUCTION TO INFORMATION THEORY**—Fazlollah M. Reza—*McGraw*, 496 p., \$13.50. Develops probability, information and coding theories primarily for those interested in communication sciences.

**JOHN BURROUGHS' AMERICA: Selections from the Writings of the Hudson River Naturalist**—Farida A. Wiley, Ed.—*Doubleday*, 293 p., illus. by Francis Lee Jaques, paper, \$1.45. Reprint.

**THE MOUNTAINS OF CALIFORNIA**—John Muir—*Doubleday*, 300 p., illus., paper, \$1.25. Published originally in 1894, book tells about Muir's fight for land and forest conservation.

**VARIEGATED FOLIAGE PLANTS**—Paul Fischer, transl. from German by Corry Van Alphen—*Blandford (St. Martins)*, 136 p., 96 photographs, \$3.50. Covers all better-known foliage plants of interest to the indoor gardener.

**WHAT IS CALCULUS ABOUT?**—W. W. Sawyer—*Random House*, 118 p., illus., paper, \$1.95. Mathematician explains calculus with a minimum of technical terms, understandable to high school students and laymen.

**THE WONDERFUL WORLD OF PREHISTORIC ANIMALS**—William Elgin Swinton—*Garden City Bks*, 93 p., illus. by Maurice Wilson and others, \$2.95. Colorful story book of paleontology.

**ZOO-MAN TALES**—T. H. Gillespie—*Taplinger*, 121 p., illus. by Len Fullerton, \$2. True stories about animals.

• Science News Letter, 80:180 September 9, 1961



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