

# Books of the Week

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**ABOS OF TELEMETRY**—Alan Andrews—Sams (Bobbs), 95 p., illus., paper, \$1.95. Introduction to new technique in electronics that permits measurements made at inaccessible or hazardous locations to be interpreted at centralized control points.

**AMERICAN WOMEN:** The Report of the President's Commission on the Status of Women and Other Publications of the Commission—Margaret Mead and Frances Balgley Kaplan, Eds., introd. and epilogue by Margaret Mead—Scribner, 274 p., illus., \$6.95. Reviews the progress made in giving American women practical equality with men educationally, economically and politically.

**THE ANCIENT WORLD, 1200 BC to AD 500**—Luigi Pareti with Paolo Brezzi and Luciano Petech, transl. from Italian by Guy E. F. and Sylvia Chilver—Harper, 1048 p., 80 plates, maps, \$15.50. Volume II of **HISTORY OF MANKIND**, published for the International Commission for a History of the Scientific and Cultural Development of Mankind, UNESCO. A work of synthesis and general information, planned to present an international viewpoint.

**APPRENTICESHIPS IN AMERICA:** A Report on Golden Opportunities in Industry—Harry Kursh—Norton, rev. ed., 200 p., \$4.95. Detailed information on apprenticeship programs for training skilled workers.

**THE ART AND SCIENCE OF CREATIVITY**—George F. Kneller—Holt, 106 p., paper, \$1.95. Places some recent concepts of creativity in theoretical perspective, and recommends ways in which creativity can be encouraged by education.

**ASTRONAUTICS AND AERONAUTICS, 1964:** Chronology on Science, Technology and Policy—NASA Historical Staff, foreword by Robert C. Seamans, Jr.—GPO, 527 p., paper, \$1.75. Presents a succinct summary of advances in U.S. space capabilities and experiences during 1964, indexed.

**ATOMS, MOLECULES AND CHEMICAL CHANGE**—Russell H. Johnson and Ernest Grunwald—Prentice-Hall, 2nd ed., 354 p., illus., \$7.50. Book designed to give students a general grounding in the experimental and logical foundations of chemistry.

**THE CONTROL OF PAIN**—Frederick Prescott—Crowell, 146 p., illus., \$4.50. A history of man's efforts to define, analyze and relieve pain, written by physician for the general reader.

**ELEMENTARY PARTICLE AND HIGH ENERGY PHYSICS:** 1963 Lectures Given at the Carge Summer School of Theoretical Physics—M. Levy

and Ph. Meyer, Eds.—Gordon & Breach, 362 p., \$14.50; paper, \$7.95. Mainly aimed at theoreticians.

**ENGINEERING PHYSICAL METALLURGY**—Y. Lakhtin, transl. from Russian—Gordon & Breach, 471 p., illus., \$14.50. Sets forth fundamentals of physical metallurgy and heat treatment of steel, cast iron and nonferrous metals, as an aid to new engineering personnel.

**THE ENGLISH LANGUAGE:** An Introduction—W. Nelson Francis—Norton, 273 p., \$3.50. A scholarly background to written English, at undergraduate level.

**A FIRST COURSE IN PARTIAL DIFFERENTIAL EQUATIONS** with Complex Variables and Transform Methods—H. F. Weinberger—Blaisdell Pub. Co., 446 p., \$12.50. Attempts to present the usual material in a framework where the general properties of partial differential equations such as characteristics, domains of dependence, and maximum principles can be clearly seen.

**GENE ACTION**—Philip E. Hartman and Sigmund R. Suskind—Prentice-Hall, 158 p., illus., \$4.95; paper, \$2.95. A thorough account of the present state of knowledge, and speculations about how genes act in the cell to effect the ultimate phenotype.

**GENERAL RELATIVITY AND COSMOLOGY**—G. C. McVittie—Univ. of Ill. Press, 2nd ed., 241 p., \$6.95. Explores the possibilities of general relativity as a method in mathematical physics and astronomy and as a means of interpreting the data supplied by observation.

**THE GENERAL THEORY OF SORPTION DYNAMICS AND CHROMATOGRAPHY**—Vladimir Vatslavovich Rachinskii, transl. from Russian—Consultants, 90 p., paper, \$15. Attempts to present the bases of the general theory of the dynamics of sorption and chromatography in a logical sequence.

**A HANDBOOK OF HOME WORKSHOP MEASUREMENT AND DESIGN**—Richard Gordon—McGraw-Hill, 201 p., illus., \$5.50. Practical discussion of direct and indirect measurement, arches, the steel square, reading working drawings and measuring instruments.

**HANDBOOK OF MATHEMATICAL FUNCTIONS** with Formulas, Graphs and Mathematical Tables—Milton Abramowitz and Irene A. Stegun, Eds.—Dover, 1,046 p., paper, \$4. Unabridged republication of the work first published by the National Bureau of Standards in 1964.

**HIGH-TEMPERATURE COMPOUNDS OF RARE EARTH METALS WITH NON-METALS**—Grigori Valentinovich Samsonov, transl. from Russian—Consultants, 280 p., diagrams, \$17.50. Brings together information on the methods of production, structure, properties and fields of application of refractory compounds of the rare-earth metals.

**A HISTORY OF PATHOLOGY**—Esmond R. Long—Dover, 199 p., illus., paper, \$2. Enlarged and corrected republication of work first published in 1928, with new chapter on recent trends in pathology, 1929-1963, added by author.

**HOW TO BE YOUR OWN HOME ELECTRICIAN**—George Daniels—Harper, 144 p., photographs, diagrams, \$2.95. Discusses basic wiring techniques, the tools you need, and step-by-step illustrations on how to make repairs and install fixtures.

**HOW TREES HELP YOUR HEALTH**—Muriel W. Sweet—Naturegraph, 64 p., illus., by Jane Judd, paper, \$1. Describes the medicinal qualities of 30 trees, from Ailanthus to Yew.

**INTRODUCTION TO STEREOCHEMISTRY**—Kurt Mislow—Benjamin, W. A., 193 p., diagrams, \$8.50; paper, \$3.95. Text-monograph on those aspects of structural organic chemistry that are a direct consequence of molecular three-dimensionality.

**THE LONELIEST CONTINENT:** The Story of Antarctic Discovery—Walker Chapman—N.Y. Graphic Soc. Pubs., 279 p., photographs, maps, \$4.95. The history of exploration of Antarctica, from early Greek speculations to the scientific expeditions of this century.

**MATERIALS SCIENCE RESEARCH, Vol. 2**—Henry M. Otte and Saul R. Locke, Eds.—Plenum Press, 319 p., illus., \$13.50. Papers deal with fundamental problems such as grain boundaries in ceramic materials, and applied research such as lightweight aerospace materials and glass microtaps.

**NEW INTRODUCTORY LECTURES ON PSYCHOANALYSIS**—Sigmund Freud, newly transl. and ed. by James Strachey—Norton, 202 p., \$4.50. Lectures treat a wide variety of subjects including dreams, the psychic structure of the mind, anxiety and the instincts, and femininity.

**ORGANIC CHEMISTRY**—B. Pavlov and A. Terentev, transl. from Russian—Gordon & Breach, 568 p., illus., \$16. Deals consecutively with compounds with an open chain of carbon atoms, carbocyclic compounds and heterocyclic compounds.

**OXIDATION AND COMBUSTION REVIEWS, Vol. 1**—O. F. H. Tipper, Ed.—Elsevier Pub. Co. (N.Y.), 344 p., diagrams, \$13.50. Concentrates on the chemistry of various aspects of oxidation and combustion in which molecular oxygen is involved.

**A PHILOSOOPHER LOOKS AT SCIENCE**—Alfred North Whitehead—Philosophical Lib., 128 p., \$3. Collection of essays.

**PLASTICS AS AN ART FORM**—Thelma R. Newman—Chilton Bks., 338 p., photographs, \$11. Discusses the properties of plastics, modifiers, laminating, foaming and fabrication methods, describes working with polyester and epoxy resins, with acrylics, vinyls, polystyrenes and silicones.

**PRACTICAL INSTRUMENTAL ANALYSIS**—J. Krugers and A. I. M. Keulemans, Eds.—Elsevier Pub. Co. (N.Y.), 263 p., illus., \$11. Pays special attention to the construction of apparatus, range of application, and the physical and chemical phenomena forming the basis of analytical methods.

**PRINCIPLES OF DYNAMICS**—Donald T. Greenwood—Prentice-Hall, 518 p., diagrams, \$14. Thorough treatment of the underlying principles of dynamics in logical sequence, dynamics of a rigid body and vibration theory.

**PRIVATE WANTS AND PUBLIC NEEDS:** Issue Surrounding the Size and Scope of Government Expenditure—Edmund S. Phelps, Ed.—Norton, rev. ed., 173 p., \$4. Fourteen articles considering the consequences of the expansion of the public sector in the U.S. economy.

**PROJECTIVE GEOMETRY, Vols. I and II**—Oswald Veblen and John Wesley Young—Blaisdell Pub. Co., 345 p., 511 p., diagrams, paper, \$2.25, \$3. Reprint, first published in 1910 and 1946.

**PROTOZOAN NUTRITION**—R. P. Hall—Blaisdell Pub. Co., 90 p., illus., \$3.50. Monograph investigates protozoan ecology based on identification of essential foods and vitamins for a variety of species, a factor in influencing the productivity of lakes and oceans.

**THE RADIO AMATEUR'S V.H.F. MANUAL:** A Manual of Amateur Radio Communication on the Frequencies Above 50 Megacycles—Edward P. Tilton—Am. Radio Relay League, 318 p., illus., paper, \$2. Information on bands and equipment for the hobbyist.

**ROUTES OF CONTAGION**—Andre Siegfried, preface by Pasteur Vallery-Radot, transl. from French—Harcourt, 98 p., maps, \$3.50. The last work of the French humanist, a study of the geographical spreading of infectious diseases and epidemics over the globe.

**SALVAGE ARCHAEOLOGY IN PAINTED ROCKS RESERVOIR WESTERN ARIZONA**—William W. Wasley and Alfred E. Johnson—Univ. of Ariz. Press, 123 p., illus., paper, \$5. Excavation reports and discussion of Hohokam phase sequence, settlement patterns, burial practices, artifacts, and Mesoamerican influences.

**SEX OFFENDERS:** An Analysis of Types—Paul H. Gebhard and others—Harper, 923 p., \$12.50. The findings of a 25-year study conducted by the Institute for Sex Research, involving 2,721 men, half of whom are serving prison sentences for sex crimes. For story see p. 68.

**THE SHELL BOOK OF EPIO MOTOR RACES**—Peter Roberts—Arco, 128 p., 60 illus., \$3.50. Describes in some detail ten famous world championship races.

**SOUTHWESTERN ARCHAEOLOGY**—John O. McGregor—Univ. of Ill. Press, 2nd ed., 511 p., illus., \$9.50. Organized background with detailed description of periods in the center of the southwestern cultures, eastern Arizona and western New Mexico.

**SPACE PROPULSION**—Donald L. Turcotte—Blaisdell Pub. Co., 140 p., diagrams, paper, \$2.50. A one-semester course dealing with the fundamental laws that influence space vehicle performance.

**USSR:** A Concise History—Basil Dmytryshyn—Scribner, 620 p., illus., maps, \$8.95. An objective and readable survey of the history and the domestic and foreign policies of the Soviet Union, with appendices of biographies and documents.

• Science News Letter, 88:76 July 31, 1965

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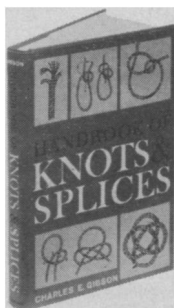
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