

# Books of the Week

For the editorial information of our readers, books received for review since last week's issue 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. Request free publications direct from publisher, not from Science Service.

**AN ADVENTURE IN ASTRONOMY**—Kenneth Heuer—*Viking*, 127 p., illus., \$3.50. As in a planetarium demonstration, the book describes unusual celestial phenomena and shows how, as one changes his latitude, the heavens, as well as the earth, are transformed.

**AIRWAYS OF AMERICA**—Poyntz Tyler, Ed.—*Wilson, H. W.*, 189 p., \$2. Collection of articles on commercial air travel.

**AUDIO MEASUREMENTS**—Norman H. Crowhurst—*Gernsback*, 223 p., illus., paper, \$2.90. Reference work and textbook.

**BASIC PULSES**—Irving Gottlieb—*Rider*, 175 p., illus., paper, \$3.50. Explains what pulses are, their composition, measurement, generation and application.

**THE BUILDING OF TVA: An illustrated History**—John H. Kyle—*La. State Univ. Press*, 162 p., illus., \$7.50. Survey of TVA achievements in its 25th anniversary year.

**CAREER 1958: For the Experienced Engineer and Scientist**—William H. Ottley, Ed.—*Careers Inc.*, 72 p., illus., quarterly, single copies \$1.95. Replaces CAREERS FOR THE CHEMICAL ENGINEER, listed SNL Nov. 8, 1958.

**ESSENTIALS OF THERAPEUTIC NUTRITION**—Solomon Garb—*Springer Pub. Co.*, 147 p., paper, \$2. Course for graduate nurses emphasizing the "why" of the nutritional regime.

**A FIELD GUIDE TO TREES AND SHRUBS**—George A. Petrides—*Houghton*, 431 p., illus. by author and Roger T. Peterson, \$3.95. Field

marks of trees, shrubs and woody vines that grow wild in northern U.S. and southern Canada.

**THE FOSSIL BOOK: A Record of Prehistoric Life**—Carroll Lane Fenton and Mildred Adams Fenton—*Doubleday*, 482 p., photographs and drawings, \$12.50. Tells what fossils are, where they are found, what they mean, and how they are related to plants, animals and lesser creatures living on the earth today. A guide for collectors with bibliographies and glossary.

**GEOLOGY OF THE GREAT LAKES**—Jack L. Hough—*Univ. of Ill. Press*, 313 p., illus., \$8.50. Discusses the geological history of Lakes Superior, Michigan, Huron, Erie and Ontario. Bibliography included.

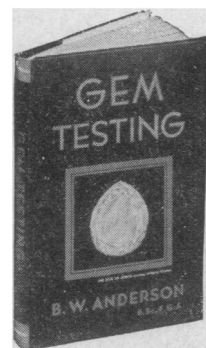
**A GUIDE TO THE HISTORY OF BACTERIOLOGY**—Thomas H. Grainger, Jr.—*Ronald*, 210 p., \$4.50. Selected annotated list of references.

**THE HEALTH OF A NATION: Harvey W. Wiley and the Fight for Pure Food**—Oscar E. Anderson, Jr.—*Univ. of Chicago Press* for Univ. of Cincinnati, 333 p., \$6. Biography of the chief chemist of the U.S. Department of Agriculture, who led the fight for the Pure Food and Drug Act of 1906.

**INTERNATIONAL COMMITTEE OF ELECTROCHEMICAL THERMODYNAMICS AND KINETICS: Proceedings of Eighth Meeting, Madrid 1956**—*Butterworth (Canada)*, 497 p., illus., \$19. Papers and discussions, in English and French.

**INTRODUCTION TO BESSEL FUNCTIONS**—Frank Bowman—*Dover*, 135 p., paper, \$1.35. Reprint of first edition.

**JUNCTION TRANSISTOR ELECTRONICS**—Richard B. Hurley—*Wiley*, 473 p., \$12.50. Coordinated, basic knowledge of the characteristics and circuit applications of transistors.



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**MEN, MOLDS AND HISTORY**—Felix Marti-Ibanez—*MD Publications*, 114 p., \$3. Introduction to the world of antibiotics, their culture, techniques and impact on medicine.

**THE METAL THORIUM: Proceedings on 1956 Conference on Thorium**—Harley A. Wilhelm, Ed.—*Am. Soc. of Metals*, 397 p., illus., \$10. Conference was held in cooperation with the Atomic Energy Commission.

**MICROSOMAL PARTICLES AND PROTEIN SYNTHESIS**—Richard B. Roberts, Ed.—*Pergamon* for Wash. Acad. of Sciences, 168 p., illus., \$5. First symposium of Biophysical Society held at M.I.T. in February 1958.

**NOMENCLATURE OF PLANTS: A Text for the Application by the Case Method of the International Code of Botanical Nomenclature**—Harold St. John—*Ronald*, 157 p., paper, \$2.50.

**NUCLEAR REACTORS FOR POWER GENERATION**—E. Openshaw Taylor, Ed.—*Philosophical Lib.*, 144 p., illus., \$7.50. Of interest to engineers associated with the building and operation of nuclear power stations.

**THE OIL CENTURY: From the Drake Well to the Conservation Era**—J. Stanley Clark—*Univ. of Okla. Press*, 280 p., illus., \$3.95. Traces the development of techniques from early waste to controlled production.

**OPTICAL PROPERTIES OF SATURN'S RINGS: I. Transmission**—Allan F. Cook II and Fred A. Franklin—*Smithsonian Inst. (Govt. Printing Office)*, Smithsonian Contributions to Astrophysics, Vol. 2, No. 13, 7 p., paper, 20¢.

**PERKIN CENTENARY LONDON: 100 Years of Synthetic Dyestuffs**—John Read and others, foreword by Sir Robert Robinson—*Pergamon*, 136 p., illus., \$7.50. Review of progress since Perkins' achievement which led to the virtual supersession of natural dyes by synthetic ones.

**PERSONALITY PATTERNS OF PSYCHIATRISTS, Vol. I: A Study of Methods for Selecting Residents**—Robert R. Holt and Lester Luborsky—*Basic Bks*, 386 p., \$7.50. Based on ten-year research study of 466 applicants for psychiatric training at The Menninger Foundation.

**PERSONALITY PATTERNS OF PSYCHIATRISTS, Vol. II: Supplementary and Supporting Data**—Robert R. Holt and Lester Luborsky—*Basic Bks*, 400 p., paper, \$4.

**THE PHYSICS OF ELEMENTARY PARTICLES**—J. D. Jackson—*Princeton Univ. Press*, 135 p., \$4.50. For graduate students and for physicists not specializing in this field.

**THE PHYSICS OF RUBBER ELASTICITY**—L. R. G. Treloar—*Oxford Univ. Press*, 2nd ed., 242 p., \$5.60. Revision includes special chapters on swelling phenomena and on the estimation of the degree of cross-linking.

**PSYCHIATRY IN THE BRITISH ARMY IN THE SECOND WORLD WAR**—Robert H. Ahrenfeldt, foreword by Eli Ginzberg—*Columbia Univ. Press*, 312 p., \$6. Discusses personnel and officer selection, mental defects and treatment of psychiatric cases, forward psychiatry and morale.

**THE PSYCHODYNAMICS OF FAMILY LIFE: Diagnosis and Treatment of Family Relationships**—Nathan W. Ackerman—*Basic Bks*, 379 p., \$6.75. Outlines conceptual approach to emo-

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tional disturbance in the individual through analysis of his family experience.

**THE QUALITY OF MURDER**—John Holland Cassity, introd. by James D. C. Murray—*Julian Press*, 268 p., \$4.50. A psychiatric and legal evaluation of motives and responsibilities involved in the plea of insanity.

**THE REINTEGRATIVE PROCESS IN A PSYCHOANALYTIC TREATMENT: Vol. III of The Integration of Behavior**—Thomas M. French—*Univ. of Chicago Press*, 484 p., \$10. Seeks to improve our understanding of how the treatment exerts its influence on the patient.

**ROADS**—Fon W. Boardman, Jr.—*Walck, Henry Z.*, 143 p., illus., \$3.50. The story of road building from ancient Egypt to the Pan American Highway.

**RUSSIAN-ENGLISH MEDICAL DICTIONARY**—Stanley Jablonski, Ben S. Levine, Ed.—*Academic*, 423 p., \$11. Based on Russian terms extracted from medical publications in the Soviet Union from 1946 to 1957.

**SECRETS OF HYPNOTISM**—S. J. van Pelt, foreword by Melvin Powers—*Wilshire Bk.*, 212 p., illus., paper, \$2. On the importance of hypnotism in medicine.

**SELECTED PAPERS ON QUANTUM ELECTRODYNAMICS**—Julian Schwinger, Ed.—*Dover*, new ed., 424 p., paper, \$2.45. Includes papers by Bethe, Dirac, Fermi, Heisenberg, Oppenheimer, Wigner, and others.

**SOLID STATE PHYSICS, Vol. 7: Advances in Research and Applications**—Frederick Seitz and David Turnbull, Eds.—*Academic*, 525 p., \$12. On structures and elastic constants of crystals, on electron energy bands in solids and other subjects.

**STATICS AND THE DYNAMICS OF A PARTICLE**—William Duncan MacMillan—*Dover*, 430 p., \$2. Reprint of 1927 textbook in theoretical mechanics.

**TEACHERS PACKET ON SOUTH ASIA: Ceylon, India, Nepal and Pakistan**—*The Asia Society*, \$1. Experimental folder with pamphlets, maps and audio-visual material, to encourage the study of Asia in American schools.

**THEORETICAL MECHANICS: An Introduction to Mathematical Physics**—Joseph Sweetman Ames and Francis D. Murnaghan—*Dover*, new ed., 462 p., paper, \$2. Unabridged reprint of 1929 edition.

**TOPICS IN ELECTROMAGNETIC THEORY**—Dean A. Watkins—*Wiley*, 118 p., illus., \$6.50. One-semester graduate course in micro-wave engineering.

**VECTOR ANALYSIS WITH AN INTRODUCTION TO TENSOR ANALYSIS**—A. P. Wills—*Dover*, 285 p., paper, \$1.75. Unabridged corrected republication of 1931 edition.

**WALT DISNEY'S WHITE WILDERNESS: Animals of the Arctic**—Robert Louvain and others—*Simon & Schuster*, 56 p., illus., 50¢. For young readers.

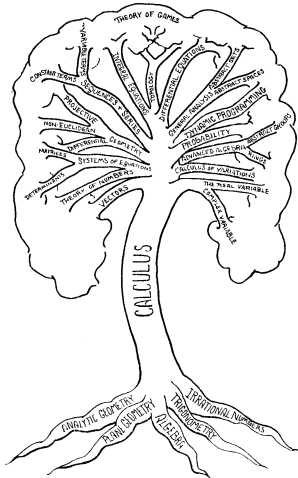
**WHAT'S IN THE AIR?**—Hazel Holly—*Public Affairs Committee*, Pamphlet No. 275, 20 p., illus., paper, 25¢. Issued on the occasion of the National Conference on Air Pollution of the Public Health Service in November 1958.

**WILD PARADISE: The Story of the Coto Donana Expeditions**—Guy Mountfort—*Houghton*, 239 p., photographs by Eric Hosking, \$7. Ornithologist's story of birds observed in the wildlife sanctuary on the southeast coast of Spain.

**THE WILDEST GAME**—Peter Ryhiner as told to Daniel P. Mannix—*Lippincott*, 320 p., illus., \$4.95. On the business of wild animal trapping.

**THE WORLD OF NITROGEN**—Isaac Asimov—*Abelard-Schuman*, 160 p., \$2.75. Explains the range of nitrogen-containing organics, from explosives to vitamins and from dyes to antibiotics, for the general reader.

Science News Letter, December 6, 1958



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