

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.

ADVANCES IN X-RAY ANALYSIS, Vol. 5—William M. Mueller, Ed.—*Plenum Press*, 564 p., illus., \$17.50. Proceedings of the Tenth Annual Conference on Application of X-Ray Analysis, sponsored by the University of Denver, 1961.

ANALYTICAL CHEMISTRY OF POLYMERS, Part II: Analysis of Molecular Structure and Chemical Groups. Part III: Identification Procedures and Chemical Analysis—Gordon M. Kline, Ed.—*Interscience*, 619 p., 566 p., illus., \$17.50, \$16.50. Planned and written by staff members of the National Bureau of Standards.

BETWEEN PACIFIC TIDES—Edward F. Ricketts and Jack Calvin, rev. by Joel W. Hedgpeth, foreword by John Steinbeck—*Stanford Univ. Press*, 3rd ed., 516 p., illus. by Ritchie Lovejoy, photographs, \$8.75. Detailed account of the habit and habitats of some 500 common seashore invertebrates of the Pacific Coast between Alaska and Mexico.

BRITAIN: An Official Handbook, 1962—Central Office of Information—*British Information Services*, 588 p., photographs, maps, \$5; paper, \$2.70. Describes activities of many of the institutions of the United Kingdom.

COMPUTATION OF MULTISTAGE SEPARATION PROCESSES—Donald N. Hanson, John H. Duffin and Graham F. Somerville—*Reinhold*, 361 p., \$4.95. Presents mathematics of stagewise separation processes in the form of computer programs.

THE COMPUTER REVOLUTION—Edmund C. Berkeley—*Doubleday*, 249 p., \$4.50. Discusses and analyzes the use of computers in handling information, the shape of things to come and the social responsibilities involved.

THE CONQUEST OF AIR—Pierre Lacroix, transl. from French by Michael Heron—*Burke/London (Harvey House)*, 84 p., illus., \$3.50. About the uses man has made of the air, from windmills to airplanes. For boys and girls.

THE CONQUEST OF THE SEA—Gilles Avril, transl. from French by Peter Kemp—*Burke/London (Harvey House)*, 69 p., illus. by Tanguy B. Remur, \$3.50. Colorful history of man's travels on the sea, for boys and girls.

CURRENT MEDICAL TERMINOLOGY 1963—Burgess L. Gordon, Ed.—*Am. Medical Assn.*, 346 p., paper, \$2. Medical dictionary with alphabetized listing of preferred terms, cross references and numerical index.

CURRENT THOUGHT ON PEACE AND WAR, Fall-Winter 61—L. Larry Leonard, Ed.—*Current Thought, Inc.*, 127 p., paper, \$4; \$7 per year. A semi-annual digest of literature and research in progress on the problems of world order and conflict.

DARWIN, MARX AND WAGNER: A Symposium—Henry L. Plaine, Ed.—*Ohio State Univ. Press*, 165 p., \$3.50. Conference papers appraising the impact of these men on both their own disciplines and upon society.

DIRECT USE OF SOLAR-ENERGY FOR COMMUNICATION, Part I: Analysis of Solar-Optical Communication—Duane E. Erway—*Electro-Optical Systems (OTS)*, multi-paged, illus., paper, \$6. Presents analytical work on which the design of the experimental equipment of the SOCOM program was based.

DIRECTORY OF CANADIAN SCIENTIFIC AND TECHNICAL PERIODICALS—*National Research Council Library*, 2nd ed., 34 p., paper, \$1 direct to publisher, Sussex Drive, Ottawa 2, Canada.

DIRECTORY OF GEOSCIENCE FILMS—Wakefield Dort, Jr., Ed.—*Am. Geological Institute*, 63 p., paper, \$1. Annotated listing of more than 500 educational films.

THE ECONOMICS OF EDUCATION—John Vaizey—*Free Press (Macmillan)*, 165 p., \$4. Scholarly attempt of educator-economist to review existing work and deal comprehensively with the economic aspects of education.

ENERGY FOR MAN: From Windmills to Nuclear Power—Hans Thirring—*Harper*, 409 p., diagrams, paper, \$1.95. Reprint (1958).

EQUATORIAL WATERS AND CURRENTS AT

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150°W in July-August 1952—R. B. Montgomery and E. D. Stroup—*Johns Hopkins Press*, 68 p., illus., \$5. Monograph reports on detailed sampling of upper layers of transequatorial hydrographic section and on current measurements with drogues.

FLUTES, WHISTLES AND REEDS—Larry Kettelkamp—*Morrow*, 48 p., illus. by author, \$2.75. Tells children how these musical instruments work and how they are made.

FOREST FIRE!—Frances Judge—*Knopf*, 148 p., illus. by Jo Polseno, photographs, \$3. A concise and factual book for young people about combustion and fuel types, and modern firefighting methods.

A GEOGRAPHY OF MANUFACTURING—E. Willard Miller—*Prentice-Hall*, 490 p., illus., \$12.65. A survey course of world manufacturing, describes and analyzes the complex areal patterns of 21 leading industrial countries, with geographical analysis of major industries.

THE HARMONIOUS WORLD OF JOHANN KEPLER—Sidney Rosen—*Little*, 212 p., illus. by Raffaello Busoni, \$3.75. Juvenile biography of the 16th century astronomer-mathematician.

THE HUMANIZATION OF MAN—Ashley Montagu—*World Pub. Co.*, 319 p., \$6. Anthropologist's essays, focusing on some of the problems resulting from man's increasingly complex urbanizing experience.

IDEAS ON HUMAN EVOLUTION: Selected Essays, 1949-1961—William Howells, Ed.—*Harvard Univ. Press*, 555 p., illus., \$10. Papers reflecting changed ideas on human evolution as a result of new fossil finds and new theoretical understandings.

JOSIAH WILLARD GIBBS: The History of a Great Mind—Lynde Phelps Wheeler, foreword by A. Whitney Griswold—*Yale Univ. Press*, 270 p., paper, \$1.75. Reprint of revised edition (1952).

LATE PERMIAN TERRESTRIAL VERTEBRATES, U.S.A. and U.S.S.R.—Everett C. Olson—*Am. Philosophical Soc.*, 224 p., illus., paper, \$5. Presents effort to synthesize the present knowledge of geology and fauna of Kazanian age into a coherent interpretation of their life and evolution.

THE LONELY AFRICAN—Colin M. Turnbull—*Simon & Schuster*, 251 p., illus., \$4.50. Anthropologist, in a series of biographical sketches of modern Africans, examines the values, traditions and effects of tribalism.

MAN AND HIS EARTH—George D. Scarseth—*Iowa State Univ. Press*, 199 p., illus. by John Huseby, \$4.50. Soil scientist's thoughts and observations about the relationships of soils, plants and man.

MATHEMATICAL LOGIC—Willard Van Orman Quine—*Harper*, rev. ed., 346 p., paper, \$2.25. Reprint of revised 1951 edition.

MEN OF SPACE, Vol. 4: Profiles of the Leaders in Space Research, Development and Exploration—Shirley Thomas—*Chilton Co.*, 284 p., photographs, \$3.95. Presents the men who direct some of the great space projects, such as Jack Armstrong, Robert R. Gilruth, Malcolm D. Ross and others.

MICROBIOLOGY OF COAL—Martin H. Rogoff, Irving Wender and Robert B. Anderson—*Bureau of Mines*, 85 p., paper, single copies free upon request from publisher, 4800 Forbes Ave., Pittsburgh 13, Pa. Critical review of the literature concerned with those areas of microbiology related to studies of coal as a biological material.

MICROGRAPHIA OR SOME PHYSIOLOGICAL DESCRIPTIONS OF MINUTE BODIES MADE BY MAGNIFYING GLASSES WITH OBSERVATIONS AND INQUIRIES THEREUPON—Robert Hooke, preface by R. T. Gunther—*Dover*, 273 p., illus., paper, \$2. Facsimile reprint of the original 1665 edition.

• Science News Letter, 82:124 August 25, 1962

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