

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.

BASICS OF ANALOG COMPUTERS—Thos. D. Truitt and A. E. Rogers—*Rider, J. F.*, 400 p., illus., \$12.50. A picture-text course describing the principles and operation of analog computers, using mathematics in simple terms.

BIOCHEMICAL ASPECTS OF MICROBIAL PATHOGENICITY—Werner Braun, Ed.—*N.Y. Acad. of Sciences, Annals*, Vol. 88, Art. 5, 297 p., illus., paper, \$5. Assembles current knowledge of molecular mechanisms pertaining to problems of microbial pathogenesis.

BIOCHEMISTRY AND PHARMACOLOGY OF COMPOUNDS DERIVED FROM MARINE ORGANISMS—Ross F. Nigrelli, Ed.—*N.Y. Acad. of Sciences, Annals*, Vol. 90, Art. 3, 334 p., illus., paper, \$5. Among others, papers discuss venom of stonefish, weaverfish, shellfish and puffer.

BIRDS OF THE PHILIPPINE ISLANDS: Siquijor, Mount Malindang, Bohol and Samar—Austin L. Rand and Dioscoro S. Rabor—*Chicago Nat. Hist. Mus.*, 216 p., paper, \$4. Study of tropical birds found on four of the 7100 Philippine Islands.

BLOCK AND GRAFT POLYMERS—William J. Burlant and Allan S. Hoffman—*Reinhold*, 166 p., \$7.95. Summarizes, qualitatively, the reactions and experimental techniques used to initiate block and graft polymerization, and demonstrates the possibility of "molecular engineering" of polymers.

THE BOY'S BOOK OF MEDICAL SCIENCE—L. R. Celestin—*Roy Pubs.*, 143 p., illus., \$3.50. Introduces young reader to the world of medicine and medical electronics.

DICTIONARY OF AMERICAN SPORTS—John S. Salak, Ed.—*Philosophical Lib.*, 491 p., \$10. Explains more than 6,000 terms, from "abaft (nautical)" to "zone line."

THE FOREST AND THE SEA: A Look at the Economy of Nature and the Ecology of Man—Marston Bates—*Random House*, 277 p., \$3.95. Combining scholarship and readability, book examines the life of forests, lakes, grasslands,

deserts, coral reefs and open seas, as well as man's place in nature.

FUN WITH ELECTRICITY—Tom Kennedy, Jr.—*Gernsback*, 128 p., illus., \$3.75; paper \$2.65. Simple explanation of electricity and instructions for building electrical devices.

AN INTRODUCTION TO ASTRONOMY—Robert H. Baker—*Van Nostrand*, 6th ed., 364 p., illus., \$5.50. Introductory textbook, revised to include IGY accomplishments and scientific findings, radio astronomy and new chapter on stellar evolution.

INTRODUCTION TO CERAMICS—W. D. Kingery—*Wiley*, 781 p., illus., \$15. Textbook featuring extensive descriptions of the micro-structure and properties of physical ceramics as illustrative material for the application to real problems.

INTRODUCTION TO ELECTRONICS: A Tutor Text—Robert J. Hughes and Peter Pipe—*Doubleday*, 421 p., illus., \$3.95. Uses effective new approach to self-teaching, the automatic tutoring system, explaining principles of electronics in terms of radio communication.

INTRODUCTION TO INDIA—Beatrice Pitney Lamb—*Am. Assn. of University Women*, 50 p., map, paper, \$1. Presents principal facets of Indian history and culture, and reviews the fundamental economic and social questions for which India is seeking answers.

MANAGEMENT GUIDE TO APPLIED INDUSTRIAL PSYCHOLOGY—Bernard T. Lewis and William W. Pearson—*Rider, J. F.*, 74 p., illus., paper, \$1.50. Discusses principles of leadership and supervision, motivation and morale of workers, psychological testing and mental health in industry.

NEW HORIZONS FOR COLLEGE WOMEN—Leo C. Muller and Quida G. Muller, Eds., foreword by Ernest C. Hollis—*Public Affairs Press*, 128 p., \$3.25. Papers presented at 1960 Symposium in celebration of the 75th anniversary of the Mississippi State College for Women.

POLICY PLANNING FOR SPACE TELECOMMUNICATIONS: Staff Report—Committee on Aeronautical and Space Sciences, U. S. Senate—*GPO*, 207 p., paper, 55¢. Reflects the emerging significance of artificial satellites for global communication.

POWER STATIONS WORK LIKE THIS—Rolt Hammond—*Roy Pubs.*, 57 p., illus., \$2.95. British book for young people, explains how a

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power station is planned, how different turbines work, and how electricity is transmitted to its users.

PROSPECTUS ON RESEARCH: Research Recommendation Proposed by the Forums—White House Conference on Children and Youth, 1960—*GPO*, 39 p., paper, 25¢. Recommends research needed in various areas for bettering the condition of children and youth.

REACHING FOR THE STARS—Erik Bergaust, introd. by Frederick C. Durant, III—*Doubleday*, 407 p., photographs, \$4.95. Biography of one of the pioneers in space rocketry, Wernher von Braun, based on personal acquaintance.

SILICON AND ITS BINARY SYSTEMS—A. S. Bereznoi, transl. from Russian—*Consultants Bureau*, 275 p., illus., \$8.50. Critical review and evaluation of binary compounds of silicon, with bibliography covering the past 40 years.

SLEEP THERAPY IN THE NEUROSES—B. V. Andreev, transl. from Russian by Basil Haigh—*Consultants Bureau*, 114 p., illus., \$8.50. Evaluates Russian experiences with sleep treatment and elaborates safe and controllable techniques for its application.

SLIDE MANUAL: A Guide to the Preparation and Use of Projection Slides—W. R. Moran and others—*Am. Assn. of Petroleum Geologists*, 28 p., illus., paper, \$1.25. Basic information on how to prepare copy for slides and transparencies, and on their production and use in presenting technical papers.

SPECTRA AND ANALYSIS—A. A. Kharkevich, transl. from Russian—*Consultants Bureau*, 222 p., \$8.75. Presents the basic theory of spectra within a framework corresponding to the requirements of electronic engineering, on a somewhat advanced level.

THE STORY OF ARCHAEOLOGY IN THE AMERICAS—Mary Elting and Franklin Folsom, reviewed for scientific accuracy by J. Aldon Mason—*Harvey House*, 160 p., illus. by Kathleen Elgin, \$2.95. Attractive book for young people, shows how archaeologists piece together the evidence from the past.

TALENT AND EDUCATION: Present Status and Future Directions—E. Paul Torrance, Ed.—*Univ. of Minn. Press*, 210 p., \$4.50. Papers presented at the 1958 Institute on Gifted Children which dealt with the identification, development and utilization of talented young people.

• Science News Letter, 79:44 January 21, 1961

Questions

ASTRONOMY—Where was the mass of the Hyades calculated? p. 37.

GERONTOLOGY—What percentage of persons over 65 years have an income of less than \$1,000 per year? p. 35.

TECHNOLOGY—What are three sources of electric energy suggested by a Russian scientist? p. 39.

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