

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.

AMERICAN DRUG INDEX 1962—Charles O. Wilson and Tony Everett Jones—*Lippincott*, 840 p., \$6.75. Alphabetical index for the identification and correlation of available pharmaceuticals, with extensive cross-indexing.

B-70, MONARCH OF THE SKIES—Charles Coombs—*Morrow*, 96 p., illus. by Lou Paleno, \$2.95. A book for young boys.

BASIC PRINCIPLES OF TRACER METHOD: Introduction to Mathematical Tracer Kinetics—C. W. Sheppard—*Wiley*, 282 p., illus., \$8. AEC-sponsored research monograph, attempting a unified presentation of the theory and methods of biological tracers in mathematical terms.

BIOCHEMICAL MECHANISMS—Lloyd L. Ingraham—*Wiley*, 108 p., illus., \$5.75. Presents mechanistic principles of organic and inorganic chemistry that are of value in biochemistry.

CARTESIAN TENSORS—Harold Jeffreys—*Cambridge*, 93 p., paper, \$1.65. Reprint.

CELLULAR REGULATORY MECHANISMS: Cold Spring Harbor Symposia on Quantitative Biology, Vol. XXVI—Leonora Frisch, Ed.—*Biological Lab.-Long Island Biol. Assn.*, 408 p., \$12. On the role of the genetic material as an information code in protein synthesis, and on the mechanism of information transfer from DNA to the site of synthesis.

COMMUNICATION SATELLITES: Technical, Economic and International Developments—Committee on Aeronautical and Space Sciences, U.S. Senate—*GPO*, 287 p., illus., paper, \$1. Staff report, summarizes background considerations, programs under way, and organization.

DESIGN GUIDE TO ORBITAL FLIGHT—Jorgen Jensen and others, foreword by Wernher von Braun—*McGraw*, 896 p., illus., \$17.50. An advanced manual of concise engineering data on satellite mechanics, such as ascent to orbit, satellite rendezvous, recovery, and guidance.

DIAGNOSTIC MICROBIOLOGY: A Textbook for the Isolation and Identification of Pathogenic Microorganisms—W. Robert Bailey and Elvyn G. Scott—*Mosby*, 327 p., illus., \$6.50.

ENGINEERING FOR THE DEVELOPING COUNTRIES: An Introductory Study—Div. of Engineering & Industrial Research—*NAS-NRC*, 41 p., paper, \$1. Discussion and recommendations of Ad Hoc Committee.

GENERAL RELATIVITY AND COSMOLOGY—G. C. McVittie—*Univ. of Ill. Press*, 198 p., \$6.95. Lectures on tensor calculus, principles of general relativity, gas dynamics, and model universes.

GREAT MEN OF SCIENCE—Arnold Dolin—*Hart*, 191 p., illus. by Raffaello Busoni, \$2.95. Biographical sketches for boys and girls.

HOUSING, PEOPLE AND CITIES—Martin Meyerson, Barbara Terrett and William L. C. Wheaton—*McGraw*, 386 p., \$9.75. Combines the findings of a five-year study analyzing present conditions of housing and urban environment.

INVENTIVE WIZARD: George Westinghouse—I. E. Levine—Messner, 190 p., \$2.95. Juvenile biography of one of the pioneers of the American industrial revolution.

INVESTING IN THE SCIENTIFIC REVOLUTION: A Serious Search for Growth Stocks in Advanced Technology—Arthur C. Merrill—*Doubleday*, 293 p., \$5.95. An evaluation of new industries from the point of view of Wall Street.

JET ENGINE MANUAL—E. Mangham and A. Peace—*Philosophical Lib.*, 3rd ed., 155 p., illus., \$3.75. Practical information on gas turbine engines.

THE LIMITS OF DEFENSE—Arthur I. Waskow, introd. by David Riesman—*Doubleday*, 119 p., \$2.95. Informed analysis of the policy of deterrence and disarmament by controlled stages.

MATHEMATICAL STATISTICS—Samuel S. Wilks—*Wiley*, 644 p., \$15. Systematic and unified presentation of basic mathematical statistics underlying the important developments of the past quarter century, such as the theory of sampling and analysis of variance.

METHODS OF HORMONE RESEARCH, Vol. I: Chemical Determinations. Vol. II: Bioassay—Ralph I. Dorfman, Ed.—*Academic Press*, 423 p., 774 p., illus., \$16, \$24. Comprehensive, authoritative reviews of the chemical and biological assay methods vital to hormone research.

NATIONAL SCIENCE FOUNDATION: Eleventh Annual Report for the Fiscal Year Ended June 30, 1961—Alan T. Waterman, Dir.—*GPO*, 325 p., photographs, paper, \$1.25. Review of program activities and list of research grants.

NATO: The Entangling Alliance—Robert Endicott Osgood—*Univ. of Chicago Press*, 416 p., \$7.50. Political scientist's study of contemporary American foreign policy in relation to NATO's past, present and future utility as a regional security alliance in the cold war.

PHYSICAL TECHNIQUES IN BIOLOGICAL RE-

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SEARCH, Vol. IV: Special Methods—William L. Nastuk, Ed.—*Academic Press*, 410 p., illus., \$13. Treats techniques such as vascular perfusion, flame photometry, and ultrasound.

PHYSICS AND TECHNIQUES OF ELECTRON TUBES, Vol. 1: Principles of Vacuum Technique—R. Champeix, foreword by G. A. Boutry—*Pergamon*, 221 p., illus., \$10. Laws of the gaseous state and low pressure phenomena and measurement.

PLANTS: An Introduction to Modern Botany—Victor A. Greulach and J. Edison Adams—*Wiley*, 557 p., illus., \$7.50. One-semester course in general botany.

PLANTS: Introductory Investigations in Botany—Victor A. Greulach and J. Edison Adams—*Wiley*, 168 p., illus., paper, \$3.95. Laboratory manual featuring longer laboratory problems.

PLAYING WITH INFINITY: Mathematics for Everyman—Rozsa Peter, transl. from Hungarian by Z. P. Dienes—*Simon & Schuster*, 268 p., illus., \$4.95. Mathematician's book for the layman, unique in that it covers mathematics from simple addition to the Continuum Theory without using a single formula.

QUANTUM ELECTRODYNAMICS: A Lecture Note and Reprint Volume—R. P. Feynman, notes corrected by E. R. Huggins and H. T. Yura—*Benjamin, W. A.*, 198 p., paper, \$3.95. For physicists.

SATELLITE TRACKING—Stanley J. Macko—*Rider, J. F.*, 178 p., \$5.50. Introduces the scientifically-inclined general reader to the concept of satellites and the calculation of their orbits.

SCIENCE AND INFORMATION THEORY—Leon Brillouin—*Academic Press*, 2nd ed., 351 p., \$9. Leading physicist's treatment of theory applicable to such technical fields of information as coding, telecommunication and mechanical computers.

SCIENCE EXPERIENCES FOR ELEMENTARY SCHOOLS—Charles K. Arey—*Teachers College*, rev. ed., 110 p., illus., paper, \$1.50. Points out basic science concepts which may be developed through experiences described.

THE SCIENCE OF DREAMS—Edwin Diamond—*Doubleday*, 264 p., \$4.50. Journalist summarizes what has become known about dreams and dreaming through experiments.

SPACECRAFT AND MISSILES OF THE WORLD—James Baar and William E. Howard—*Harcourt*, 117 p., photographs, \$5.95. Concise descriptions of specific space exploration and military missile projects, indexed.

STARTING A ROCK AND MINERAL COLLECTION—Miriam Gilbert—*Hammond*, 47 p., illus. by Walter Ferguson and others, \$1. For young people.

A TEXTBOOK OF COMPARATIVE ENDOCRINOLOGY—Aubrey Gorbman and Howard A. Bern—*Wiley*, 468 p., \$12.50. Textbook reflecting the latest advances in endocrinology.

THEORY AND APPLICATIONS OF FINITE GROUPS—G. A. Miller, H. F. Blichfeldt and L. E. Dickson—*Dover*, 390 p., paper, \$2. Reprint (1916).

THE THEORY OF DETERMINANTS, MATRICES AND INVARIANTS—H. W. Turnbull—*Dover*, 3rd ed., 374 p., paper, \$2. Revised version of 2nd edition (1945).

WE LIKE BUGS—Gladys Conklin—*Holiday House*, 28 p., illus. by Artur Marokvia, \$2.95. Charmingly illustrated nature book for children.

WORLD RADIO TV HANDBOOK: Broadcasting-Television 1962—O. Lund Johansen, Ed.—*Gilfer Associates*, 16th ed., 228 p., illus., paper, \$3. Lists data on international shortwave broadcasting stations and television stations, their signals, frequencies and programs.

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