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 36, D. C.

ABC'S OF ELECTRICITY—Howard W. Sams Editorial Staff—Sams, 96 p., illus., paper, \$1.95. Explains the basic principles of batteries, generators, alternators, magnetism and AC theory.

ADVANCES IN NEUROENDOCRINOLOGY—Andrew V. Nalbandov—Univ. of III. Press, 525 p., illus., \$7.50. Papers presented at 1961 Symposium concerned with the over-all question of how the central nervous system interacts with the endocrine system for the control of body functions.

ANALYTICAL CHEMISTRY (2002)

system for the control of body functions.

ANALYTICAL CHEMISTRY 1962: Proceedings of the International Symposium, 1962—Philip W. West, A. M. G. Macdonald and T. S. West, Eds.—Elsevier Pub. Co. (N.Y.), 411 p., illus., \$16. Symposium was organized to commemorate the 70th birthday of Fritz Feigl, papers covered qualitative analysis with particular reference to spot tests, organic reagents and their applications, and various instrumental methods of analysis.

APPLIED FURD DYNAMICS A. D. Circles

APPLIED FLUID DYNAMICS—I. P. Ginzburg, transl. from Russian by Albert Barouch—Israel Program for Scientific Transl. (OTS), 258 p., paper, \$2.75. Examines the steady and unsteady flow of liquids and gases in pipes, their efflux from vessels, the effect of a jet on a barrier, and other problems of fluid mechanics.

BASIC ELECTRONIC SERIES: Radio Circuits—
Thomas M. Adams—Sams, 160 p., illus., paper, \$2.95. Explains circuit actions with the help of four-color diagrams to help visualize what takes place inside radio receivers.

BASIC FACTS OF BIOLOGY—Irving Leskowitz, Louis Levine and Jack Robbins, Eds.—Collier, 64 p., 8 review cards, paper, 95¢. Condensed outline of introductory high school course.

BASIC FACTS OF COLLEGE BIOLOGY—A. Harry Brenowitz; Louis Levine and Jack Robbins, Eds.—Collier, 64 p., diagrams, 8 review cards, paper, 95¢. Expert digest of introductory course, designed as aid to student.

THE BEAT OF THE DRUM: The Story of Drums and Other Percussion Instruments—Robert W. Surplus—Lerner Publications. 48 p., illus. by George Overlie, 82.75. A musical book for young people explaining the different percussion instruments.

CB RADIO SERVICING GUIDE—Leo G. Sands-Sams, 160 p., illus., paper, \$2.95. Outlines spe-

cific procedures for locating various types of CB radio troubles.

CELLULAR BASIS AND AETIOLOGY OF LATE SOMATIC EFFECTS OF IONIZING RADIA-TION—R. J. C. Harris, Ed.—Academic Press, 359 p., illus., \$12. Papers and discussion of the third joint UNESCO and IAEA sponsored Symposia on topics of radiobiology related to fundamental cell biology.

THE CHEMISTRY OF NUCLEOSIDES AND NEUCLEOTIDES — A. M. Michelson — Academic Press, 622 p., diagrams, \$18.50. Advanced text and reference work describes the general chemistry of nucleosides and nucleotides and their major derivatives, the nucleotide coenzymes and nucleic acids.

COLOR: A Survey in Words and Pictures, from Ancient Mysticism to Modern Science — Faber Birren—University Bks., 224 p., 250 illus., \$15. Attractive volume, presents wide selection of color lore and applications.

MATHEMATICS -COMBINATORIAL GOMBINATIONIAL MATHEMATICS—Herbert John Ryser—Mathematical Assn. of Am. (Wiley), 154 p., \$4. Deals with the elementary properties of sets, the principle of inclusion and exclusion, recurrence relations, and matrices which occur throughout the monograph,

CONGRESSIONAL DISTRICTING: The Issue of Equal Representation—Andrew Hacker—Brookings Institution, 132 p., \$3.50; paper, \$1.95. An up-to-date analysis of the growing problem of giving American voters equal representation in Congress by taking account of the shifts in population.

CONSERVATIONISTS AND WHAT THEY DO

—C. William Harrison—Watts, F., 170 p., \$3.95.
Written to acquaint young people with the many jobs in government and industry that offer the conservation-minded young person a chance to take part in a vital work.

THE DEVELOPMENTAL ANATOMY OF ISOETES—Dominick J. Paolillo, Jr.—Univ. of Ill. Press, 130 p., illus., \$3.50; paper, \$2.50. Study examines sporphytes from sporeling to adult stages, and records observations on the growth of each part, from shoot tip to root.

from shoot tip to root.

DIGITAL COMPUTER ENGINEERING—Harry
J. Gray—Prentice Hall, 381 p., diagrams, \$16.
Directed mainly at the analytical and practical
problems which must be solved systematically in the
design of a high-speed digital computing system.

DISCOVERERS OF BLOOD CIRCULATION:
From Aristotle to the Times of Da Vinci and Harvey
—T. Doby, preface by John F. Fulton—Abelard
Schuman, 285 p., illus., \$6.50. A readable history
of the most significant discoveries in their historical
context, describing the work and character of some
of the discoverers.

EDUCATION IN CZECHOSLOVAKIA—Nellie Apanasewicz with Seymour M. Rosen—OE (GPO), 40 p., paper, 20¢. One of the Office of Education's Comparative Education Studies, discussing the Czechoslovak school system from 1918-1948, 1948-1960, and the school reform of 1960.

ELECTRONIC CIRCUIT TEQUIPMENT ACADEMIC AND RELATED Press, 276 p., diagrams, \$11. Supplement 1 to Advances in Electronics and Electron Physics, edited by L. Marton. Treats electroluminescence in zinc sulfide, in related phosphors and in other materials, and deals with field effects in excited phosphors.

ELECTRONIC CIRCUIT TECHNIQUES—E. E. Zepler and S. W. Punnett, Eds.—Van Nostrand, 212 p., diagrams, \$6.50. Primarily intended for research workers, book aims to give an understanding of the fundamental operation and use of electronic circuits.

ELECTRONIC DEVICES & NETWORKS—E. E. Zepler and S. W. Punnet, Eds.—Van Nostrand, 217 p., diagrams, \$6.50. Intended for research workers who have to use electronic equipment as a tool, book emphasizes the fundamental principles of active and passive components.

ELEMENTS OF TRANSISTOR TECHNOLOGY RODERT G. Middleton—Sams, 288 p., illus., \$6.95. Intended to serve as a comprehensive reference to semi-conductor devices.

Philosophy of STYLE

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Enrich your style through Herbert Spencer's and Edgar Allan Poe's classic principles that have influenced many of the world's great authors. Indispensable for writ-ers eager to get published! Send \$1.00 to PAGEANT PRESS, 101 5th AVE., N. Y. 3, Dept. SN. HEREDITY AND DEVELOPMENT—John A. Moore—Oxford Univ. Press, 245 p., illus., paper, \$1.95. Concerned with the intellectual history of the development of the genetic concepts of heredity and development, shows how ideas in these two fields were first formulated and then studied.

INFANT CARE—Children's Bureau—GPO, rev. ed., 108 p., illus., paper, 20¢ direct to Govt. Printing Office, Washington 25, D. C. New edition of booklet giving the most up-to-date information on child care, representing the combined contributions of about 100 professional experts.

INORGANIC CHEMISTRY: A Guide to Advanced Study—R. B. Heslop and P. L. Robinson—Elsevier Pub. Co. (N.Y.), 2nd rev. ed., 591 p., diagrams, \$9. New edition includes description of phosphonitrilic compounds, a section of complexes in aqueous solution, and short chapter on inorganic polymers.

INTRODUCTION TO ELECTRONIC COMPUTERS: Problem Solving with the IBM 1620—Fred J. Gruenberger and Daniel D. McCracken—Wiley, 170 p., illus., \$2.95. An introductory text to electronic digital computing, emphasizes basic principles while explaining subject in terms of a specific computer.

INTRODUCTION TO LINEAR ALGEBRA—Frank M. Stewart—Van Nostrand, 281 p., diagrams, \$7.50. Text on finite dimensional vector spaces and linear transformations, proofs are given in great detail, determinants are given multilinear and traditional treatment.

LIFE HISTORIES OF NORTH AMERICAN GALLINACEOUS BIRDS—Arthur Cleveland Bent—Dover., 490 p., 93 plates, paper, \$2.75. Unabridged republication of work first published in 1932 by the Smithsonian Institution.

LIFE HISTORIES OF NORTH AMERICAN GULLS AND TERNS—Arthur Cleveland Bent—Dover, 337 p., 93 plates, paper, \$2.75. Reprint (1921), on the habits and distribution of skua, jaeger, kittiwake, gull, tern and noddy.

THE MATHEMATICS OF GREAT AMATEURS
—Julian Lowell Coolidge—Dover, 211 p., diagrams, paper, \$1.50. Reprint (1949), gives account of the contributions of such non-professional mathematicians as Plato, Omar Khayyam, Durer, Buffon and Bolzano.

THE MODERN UNITED STATES AIR FORCE—Carroll V. Glines—Van Nostrand, 200 p., illus., \$5.95. Shows how the USAF is organized, equipped, trained and manned to provide the aerial defense of the Nation.

NATIONAL INSTITUTES OF HEALTH: Scientific Directory 1963 and Annual Bibliography 1962—PHS (GPO), 182 p., paper, 55¢. Intended for reference use by research workers in the biomedical

SCOPE WAVEFORM ANALYSIS—Robert G. Middleton—Sams, 160 p., illus, paper, \$2.95. Chiefly concerned with wave forms displayed by the better class of low-cost scopes.

SHADOWS IN THE SEA: The Sharks, Skates and Rays—Harold W. McCormick and Tom Allen with Captain William E. Young—Chilton Co., 415 p., illus., \$10. An account of the dangerous and mysterious behavior of Selachians in both fresh and salt waters, and their use by man for commercial and medical purposes.

THE SHOCK TUBE IN HIGH-TEMPERATURE CHEMICAL PHYSICS—A. G. Gaydon and I. R. Hurle—Reinhold, 307 p., illus., \$15. Presents a unified account of the laboratory shock tube for use in studying chemical and physical processes at temperatures in the range 1,000° to 5,000° K.

THE SPECIFICITY OF SEROLOGICAL REACTIONS—Karl Landsteiner, with chapter by Linus Pauling, bibliography of author's works, new preface by Merrill W. Chase—Dover, 330 p., illus., paper, \$2. Reprint of revised (1945) edition.

TROPICAL AMERICAN MYRTACEAE, II: Notes on Generic Concepts and Descriptions of Previously Unrecognized Species—Rogers McVaugh—Chicago Nat. Hist. Mus., 137 p., illus., paper, \$2.75.

THE USE AND ABUSE OF MEASUREMENT AS A FACET OF SCIENTIFIC RESEARCH—Henry S. Leonard—Univ. of Wash. Press, 57 p., paper, \$1.50. Three lectures given in the Medical Student Research Training Program at the University of Washington School of Medicine.

WILDFLOWERS OF YELLOWSTONE AND GRAND TETON NATIONAL PARKS—Richard J. Shaw—Wheelwright, 3rd ed., 42 p., 60 color photographs, spiral-bound, \$1 direct to Museum Assn., Yellowstone Park, Wyoming. Handsome, colorful guide with brief descriptions of flowers.

WONDERS OF GEMS—Richard M. Pearl—Dodd, 63 p., photographs, \$3. Tells young people about the nature of precious stones, birthstones and famous

Science News Letter, 84:44 July 20, 1963

SNL INDEX ISSUE—For use in binding SNL Vol. 83, extra copies of the index in June 29, 1963, issue are available so long as supply lasts. Send 15 ϕ in stamps or coin.

SCIENCE in CRIME DETECTION

by Nigel Morland

A fascinating, detailed account of the latest scientific methods of crime detection. Includes actual case histories of complicated crimes and how they were solved by the use of these methods. Shows how more and more the laboratory is becoming one of the most powerful of police weapons against criminals at work. and more the laboratory is becoming one of the most powerful of police weapons against criminals at work.

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