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, D. C. 20036

ABOUT NUTS—Solveig Paulson Russell—Melmont Pubs., 31 p., illus. by Frederick Harris, \$2.50. Tells children simple facts about different kinds

ANIMAL PHOTOPERIODISM: Relationship of Daylength to Animal Growth, Development and Behavior—Stanley D. Beck—Holt, 124 p., illus., paper, \$1.28. A nontechnical introduction to the subject with emphasis on basic principles.

ANTARCTICA: Polar Research and Discovery During the International Geophysical Year—Carl R. Eklund and Joan Beckman—Holt, 157 p., illus., paper, \$1.28. Authoritative and readable account of current knowledge of the seventh continent.

current knowledge of the seventh continent.

ARCHITECTURE IN TRANSITION—Constantinos A. Doxiadis—Oxford Univ. Press, 199 p., illus., \$7.50. Exposition of new solutions for new urban problems by international city planner.

THE BEHAVIOR OF RADIOACTIVE FALLOUT IN SOILS AND PLANTS—M. H. Frere and others—NAS-NRC, 32 p., paper, \$1. Comprehensive review of the fate of fallout radionuclides in cultivated soils and of the principles involved in their transfer to the tissues of man.

CANDELA: The Shell Builder—Colin Faber, foreword by Ove Arup—Reinhold, 240 p., illus., \$16.50. Description of the creative process in the development of modern structures using the hyperbolic paraboloid

CITIES AND SPACE: The Future Use of Urban Land—Lowdon Wingo Jr., Ed.—Johns Hopkins Press, 261 p., illus., \$5.50. Based on papers presented at 1962 symposium conducted by Resources of the

COLOR: A Guide to Basic Facts and Concepts—Robert W. Burnham, Randall M. Hanes and C. James Bartleson—Wiley, 249 p., illus., \$9.25. Basic elements of color education to serve as a course outline, as a reliable reference and a basis for writing textbooks.

YOUR HAIR

ITS HEALTH, BEAUTY AND GROWTH

BY HERMAN GOOMAN, M.D.

medical specialist tells you what you can and cannot do save and beautify your hair, stimulate healther hair with thinning a wide many problems, as dandruff gray in thinning a wide many problems, as dandruff gray in thinning a wide many problems, as dandruff gray problems, and gray problems and gray problems. The problems are determined to the subjects congruently as the problems of the probl trown than the second of the sealp buldness—shourmal types of heir—excessive of liness—brittle dryness—
hair falling out—infection—parasites—hair hygiene—
hair falling out—infection—parasites—hair hygiene—
glands—diel—coloring—and myriad other subjects concerning hair.

"Discusses"—SCIENCEN NEWS LETTER.
287 PAGES—Profusely Illustrated! Price \$3.95, postfree.
287 PAGES—Profusely Illustrated! Price \$3.95, postfree.
10-day Money-back Guarantee. EMERSON BOOKS, INC.
251 W. 19th Street, Dept. 849-M, New York 11, N. Y.

NICKEL-CADMIUM BATTERIES.....95 ¢ ea. The Battery That's Used in Guided Missiles Now Released as Government Surplus

Guided Missiles Now Released as Government Surplus

Ideal for photography, models, searchlights, anywhere a lightweight high capacity storage battery is needed. Sintered-land the storage batteries of the storage batteries dispired for "NIKE" Missile and now surplus. A lifetime battery with no known limit of service (over 5000 recharges on test withous of capacity). Other features of the storage batteries of compact and the storage batteries of compact and the storage of the storage

CORAL REEFS—Lois and Louis Darling—World Pub. Co., 86 p., illus. by authors, \$2.95. An introduction to the main types of reefs and the teeming life that inhabits a reef.

ENGINEERING FOR DAIRY AND FOOD PRODUCTS—Arthur W. Farrall—Wiley, 674 p., illus., \$17. Up-to-date information on the systems, improved materials, methods and individual processing units and equipment of a highly mechanized industry.

EXOTIC BIRDS: Parrots, Birds of Paradise, Toucans—Jacques Barraband and Auguste; text after Francois Levaillant, transl. from French by Eric Misbacher—Viking, unpaged, 16 color plates, \$12.50, Handsome reproductions from 18th century copper-

FUNDAMENTALS OF PHOTOGRAPHY with Laboratory Experiments—Paul E. Boucher—Van Nostrand, 4th ed., 535 p., illus., \$10. Provides basic course in physical and photo-chemical theory.

INVERTEBRATE ZOOLOGY: Laboratory Workbook—D. Elden Beck and Lee F. Braithwaite—Burgess, 2nd ed., 289 p., illus., paper, \$3. Laboratory exercises particularly suited for colleges far from marine life specimens.

MAN AND HIS FUTURE: A Ciba Foundation Volume—Gordon Wolstenholme, Ed.—Little, 410 p., diagrams, \$6. Symposium of deliberations by such distinguished research scientists as Sir Julian Huxley, Gregory Pincus and Carleton Coon on the progress and potentialities of work in the biological and medical sciences.

MAN AND THE GRASSES—Robert Froman—ippincott, 127 p., illus. by Lili Rethi, \$3.75. The ory of the domestication of cereal grains by man,

MECHANISMS OF VIRUS INFECTION-Wilson Smith, Ed.—Academic Press, 368 p., illus., \$12. Attempts to present a balanced review of the evidence on which current concepts are based, together with speculations about much that remains to be discovered.

PATHOLOGY OF DOMESTIC ANIMALS, Vol. 2

PATHOLOGY OF DOMESTIC ANIMALS, Vol. 2

—K. V. F. Jubb and Peter C. Kennedy—Academic Press, 613 p., illus., \$24. This second of two-volume comprehensive work deals with the alimentary, billary, urinary and nervous system, muscles, eye, ear and skin.

THE PEOPLE LOOK AT EDUCATIONAL TELEVISION: A Report of Nine Representative ETV Stations—Wilbur Schramm, Jack Lyle and Ithiel de Sola Pool—Stanford Univ. Press, 209 p., \$5.50. Presents a comprehensive picture of the present status of American noncommercial educational TV, based on more than 30,000 interviews.

PRACTICAL FINGERPRINTING—B. C. Bridges, rev. by Charles E. O'Hara, foreword by August Vollmer—Funk, 374 p., illus., \$6.50. Up-to-date presentation of the subject.

PROJECT MERCURY: A Chronology—James M. rimwood—NASA (GPO), 238 p., illus, paper, 1.50. Catalog of events in the development of the st American space transportation program.

PSYCHODELIC REVIEW, Vol. I, No. 1—Paul A. Lee and Ralph Metzner, Eds.—Psychodelic Review, 116 p., paper, \$1.50; quarterly, \$5 per year. Contains articles by Gerald Heard, R. Gordon Wasson and Alan W. Watts on the effects and pharmacology of LSD and other hallucigenies.

RAIN AND HAIL—Franklyn M. Branley, illustrated by Helen Borten—Crowell, unpaged, illus., \$2.35. A simple explanation of what makes rain and hail. For young children.

and nail. For young children.

THE ROLE OF SURFACE PHENOMENA IN
METALLURGY—V. N. Eremenko, Ed., authorized
translation from the Russian—Consultants Bur., 141
p., illus., diagrams, paper, \$27.50. Reports concerning
the investigation of surface properties of metal systems, as presented at interinstitutional seminar and
colloquim, USSR, 1959.



Pure scientific magic—Magnetic Levitation!

Defy gravity!!! Hundreds of other astonishing magnetic tricks. Nothing anywhere in this world like these super-powerful ALNICO V BAR MAGNETIS. Over 20 years in process of development and perfection! Size 3½" x 5/16" x 5/16" x 5/32". Free direction! Size 3½" x 5/16" x 5/32". Free direction! Size 3½" x 5/16" x 5/16

SATELLITE TRACKING FACILITIES: Their History and Operation—Shirley Thomas—Holt, 159 p., photographs, \$2.50. Discusses the complex technical achievements of this space age achievement.

THE SCIENCE OF MAN—Mischa Titiev—Holt rev. ed., 668 p., \$7.50. Expanded and updated introduction to anthropology, presents latest findings against a background of traditional concepts and methods.

THE SCIENTIFIC APPROACH: Basic Principles of the Scientific Method—Carlo L. Lastrucci—Schenkman, 257 p., \$5.95. Outlines the essential features of the scientific approach anl gives logical structure and methods.

SCIENTIFIC CHANGE: Symposium on the History of Science, Univ. of Oxford, July 1961—A. C. Crombie, Ed.—Basic Bks., 896 p., \$17.50. Historical studies in the intellectual, social and technical conditions for scientific discovery and technical invention, from antiquity to the present.

THE SEARCH FOR EARLY MAN—John E. Pfeiffer; Carleton S. Coon, Consultant—Am. Heritage (Harper), 133 p., illus. in color; photographs, \$3.95. Tells the story of the prehistoric cave dwellers with text, paintings and photographs.

SELECTED PRINCIPLES OF CHEMISTRY— Jay A. Young—Prentice-Hall, 161 p., illus., spiral bound, \$2.95. Elementary Chemistry in a manual of programmed instruction.

SELECTED BOTANICAL PAPERS—Irving William Knobloch, Ed.—Prentice-Hall, 311 p., paper, \$3.95. Collection of original writings dealing with the broad perspectives in modern botany and its implications for man.

SEMICONDUCTOR FUNDAMENTALS: Devices and Circuits—A. H. Seidman and S. L. Marshall—Wiley, 278 p., diagrams, \$6.50. Provides a clear treatment of diodes and transistors, their operation, technology and applications in circuits.

SMITHSONIAN INSTITUTION. Annual Report, 1962—Leonard Carmichael, Sec.—GPO, 610 p., illus., \$4.75. Secretary's report, and articles an aircraft and rocket propulsion, the 1960 Chilean earthquakes, genetics, the basking shark, and on how many people have lived on the earth.

STANDARD COLLEGE DICTIONARY: Text Edition—Funk & Wagnalls, preface by Albert H. Marckwardt—Harcourt, 1,606 p., illus., \$6.50; thumbindexed, \$7.50. Authoritative and comprehensive, defines more than 150,000 entries, gives 1,060 synonym and antonym studies, includes grammar and usage notes, and clear etymologies.

STRATIGRAPHY AND SEDIMENTATION—W. C. Krumbein and L. L. Sloss—Freeman, 2nd ed., 660 p., illus., \$10.50. Fully revised text for senior students in geology.

THE STRUCTURE OF BEHAVIOR—Maurice Merleau-Ponty, transl. from French by Alden L. Fisher—Beacon Press, 256 p., \$8.50. A philosophical psychology that emphasizes the holistic approach in contrast to the conditioned reflex analysis, stresses the adaptive character of responses and shows how the affinity between consciousness and nature is demonstrated in perception.

THE STRUCTURE OF THE REAL NUMBER SYSTEM.—Leon W. Cohen and Gertrude Ehrlich—Van Nostrand, 116 p., \$4.25. Presents detailed construction of the real number system, including natural numbers, integers, rational numbers, real numbers and complex numbers.

TEKTITES—John A. O'Keefe, Ed.—Univ. of Chicago Press, 228 p., illus., 20 plates, \$10.95. Brings together available physical evidence and theories about the origin and structure of tektites, emphasizing firmly established mathematical and observational facts.

THE TREATMENT OF MALIGNANT DISEASE BY RADIOTHERAPY—Ralston Paterson—Williams & Wilkins, 2nd ed., 556 p., illus., \$15.50. Updated edition incorporates the more recent developments in the use of megavoltage and radioactive isotopes.

THE TRUE BOOK OF BACTERIA—Anne Frahm—Childrens Press, 48 p., illus, by George Wilde, \$2. Introduces young children to the fact that some bacteria help us, others hurt us.

2300 STEPS TO WORD POWER: Programmed Learning Without a Machine—Edward C. Gruber—Arc Bks., 235 p., paper, \$1.45. A paperback designed for practice in enlarging your vocabulary.

WARRIORS' WEAPONS—Walter Buehr, 80 drawings by the author—Crowell, 186 p., illus., \$4.95. Traces the development of weapons from pre-historic spears to gunpowder. For young people.

THE WONDER OF STONES—Roma Gans, illustrated by Joan Berg—Crowell, unpaged, illus, \$2.35. Describes how stones are formed, how they vary and how the variations are produced. For young children.

THE WONDERS OF WATER—James H. Winchester—Putnam, 128 p., photographs, \$1.95. Explores the components and the importance of water to man through history.

YOUNG SCIENTIST LOOKS AT SKYSCRAPERS: The How and Why of Construction for Sidewalk Superintendents—George Barr, illustrated by Mildred Waltrip—McGraw, 159 p., illus., \$3. Traces steps in construction process of skyscrapers, and includes information on building materials and machines.

Science News Letter, 84:268 Oct. 26, 1963