

Books of the Week

For the editorial information of our readers, books received for review since last week's issue 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. Request free publications direct from publisher, not from Science Service.

ADOLESCENT RORSCHACH RESPONSES: Developmental Trends from Ten to Sixteen Years—Louise Bates Ames, Ruth W. Metraux and Richard N. Walker—*Hoebner*, 313 p., \$8.50. This new volume from the Gesell Institute of Child Development provides detailed longitudinal study in Rorschach responses of 100 children.

ANALYSIS OF LINEAR SYSTEMS—David K. Cheng—*Addison-Wesley*, 431 p., \$8.50. Textbook written at the advanced undergraduate-graduate level.

ANNOTATED BIBLIOGRAPHY OF APPLIED PHYSICAL ANTHROPOLOGY IN HUMAN ENGINEERING—Robert Hansen and Douglas Y. Cornog, H. T. E. Hertzberg, Ed.—*Wright Air Dev. Center (Off. of Tech. Serv.)*, 301 p., illus., paper, \$5. Condensations of 121 reports.

AN ANTHROPOLOGICAL RECONNAISSANCE IN WEST PAKISTAN, 1955, with Appendixes on the Archaeology and Natural History of Baluchistan and Bahawalpur—Henry Field—*Peabody Mus.*,

332 p., 144 fig., \$12.75, paper: \$9.75. Report on results of expedition probing the prehistory, early history and physical anthropology of the region.

ASTRONOMY—Theodore G. Mehlin—*Wiley*, 392 p., illus., \$7.95. Elementary college course, with each section preparing the student for a logical development of the following topic.

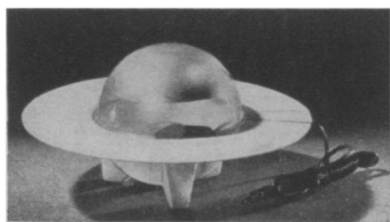
BIBLIOGRAPHY OF MONOLINGUAL SCIENTIFIC AND TECHNICAL GLOSSARIES, Vol. II: Miscellaneous Sources—Eugen Wuster—*Unesco (Columbia Univ. Press)*, 146 p., paper, \$2.50. Refers to 1,043 privately published glossaries and dictionaries in 26 languages.

BIOGRAPHICAL MEMOIRS, Vol. XXXIII—Edmund W. Sinnott and others—*Columbia Univ. Press for Nat. Acad. of Sciences*, 484 p., illus., \$5. Biographies, portraits and bibliographies of deceased members of the Academy.

CHARLES DARWIN—Sarah R. Riedman, introd. by Bert James Loewenberg—*Holt*, 192 p., \$3. Biography for teen-agers.

CONCRETE, THE VISION OF A NEW ARCHITECTURE: A Study of Auguste Perret and His Precursors—Peter Collins—*Horizon Press*, 307 p., 173 photographs, \$12.50. Describes development of a new building material and the efforts of various architects to find its most appropriate form.

A COURSE OF PURE MATHEMATICS—G. H. Hardy—*Cambridge Univ. Press*, 10th ed., 509 p., paper, \$3.75. Reprint of indexed edition.



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ENCYCLOPEDIA OF CHEMICAL REACTIONS, Vol. VIII: Tungsten, Uranium, Vanadium, Ytterbium, Yttrium, Zinc, Zirconium & Addenda—C. A. Jacobson, Compiler, Clifford A. Hampel, Ed.—*Reinhold*, 533 p., \$14. In this final volume sequence system has been changed, entries are arranged in alphabetical order of chemical symbols.

ESSENTIALS OF CHEMISTRY—Alfred Benjamin Garrett, Joseph Frederic Haskins and Harry Hall Sisler—*Ginn*, 2nd ed., 608 p., illus., \$7. Introductory college textbook.

EXCAVATIONS AT LA VENTA TABASCO, 1955—Philip Drucker, Robert F. Heizer and Robert J. Squier—*Smithsonian Inst. (Govt. Print. Off.)*, 312 p., illus., \$4. Report of archaeological expedition at the Olmec site in Mexico.

501 QUESTIONS AND ANSWERS IN ANATOMY—Stanley D. Miroyiannis, introd. by Ernest V. Enzmann—*Vantage*, 332 p., \$5. Reference text for medical, osteopathic and dental students, and others preparing for Licensure State Board Examinations.

GRENFELL OF LABRADOR—George H. Pumphrey—*Dodd*, 171 p., illus., \$3. Biography of the English physician who devoted his life to better the health and living conditions of the Eskimos of Labrador.

HOW TO HELP YOUR CHILDREN: The Parents' Handbook—William C. Menninger, Ashley Montagu, Paul Witty and others—*Sterling*, 640 p., illus., \$4.95. Advice from experts on the child's social and psychological development.

IES LIGHTING HANDBOOK: A Standard Lighting Guide—*Illuminating Eng. Soc.*, 3rd rev. ed., more than 1,000 p., illus., \$10. Essential information on light, vision, measurement and color, lighting calculations and applications in public buildings, industries, sports, roads, aviation and photography.

JUST BEFORE DARWIN: Robert Chambers and *Vestiges*—Milton Millhauser—*Wesleyan Univ. Press*, 246 p., illus., \$4.50. Story of the amateur scientist of Edinburgh and his anonymous book on the "development thesis," *Vestiges of the Natural History of Creation* (1844). Notes and bibliography included.

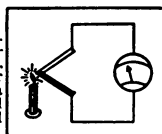
MAN'S WAY: A Preface to the Understanding of Human Society—Walter Goldschmidt—*World Pub. Co.*, 253 p., \$4. Anthropologist's analysis of man's cultural and social development.

MICROBIOLOGY—Louis P. Gebhardt and Dean A. Anderson—*Mosby*, 2nd ed., 476 p., illus., \$5.75. Essentials of microbiology for the general student and the prospective high school and junior college science teacher.

MINERAL AGGREGATES, 1958 Revision: Annotated Bibliography 23—J. F. McLaughlin—*Highway Res. Bd.*, 111 p., paper, \$2.20. Indexed by subject and by author, covers field till end of 1956.

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101 BEST NATURE GAMES AND PROJECTS—Lillian and Godfrey Frankel—*Sterling*, 128 p., illus., \$2.50. Designed to stimulate children's interest in nature and to sharpen their powers of observation.

1001 QUESTIONS ANSWERED ABOUT TREES—Rutherford Platt—*Dodd*, 318 p., drawings and photographs by author, \$6. Facts about famous trees and tree statistics, forestry, tree products, pests and diseases, fully indexed.

PHYSIOLOGY OF INSECT DEVELOPMENT—Frank L. Campbell, Ed.—*Univ. of Chicago Press*, 167 p., illus., \$4. Developmental Biology Conference Series volume, reviewing findings from studies which employed insects as subjects for genetic research, studies of hormones, nutrition and metabolism.

PLANE TRIGONOMETRY—A. W. Goodman—*Wiley*, 267 p., illus., with Tables \$4.50, without Tables \$3.75. Text arranged in the historical and natural order, combining the modern and classical views.

THE REPORT OF THE UNITED STATES PUBLIC HEALTH MISSION TO THE UNION OF SOVIET SOCIALIST REPUBLICS: Including Impressions of Medicine and Public Health in Several Soviet Republics—*U. S. Dept. of HEW (Govt. Print. Off.)*, 67 p., illus., paper, 45¢. Findings of five U. S. doctors visiting the USSR late in 1957.

RUDIMENTS OF WEATHER: The Story of Our Energetic Atmosphere—John A. Day and Fred W. Decker—*O.S.C. Coop. Assn.*, 2nd ed., 97 p., illus., paper, \$2. Examines weather phenomena in the light of the integrative theme of energy and its transformation.

SECOND CONFERENCE ON CO-ORDINATION OF GALACTIC RESEARCH—A. Blaauw and others, Eds.—*Cambridge Univ. Press*, 93 p., illus., \$3. Symposium No. 7 of the International Astronomical Union.

A SHORT COURSE OF ORGANIC CHEMISTRY—John E. Leffler—*Macmillan*, 201 p., illus., \$5.50. One-semester course primarily for students majoring in fields other than chemistry.

A SHORT INTRODUCTION TO ANATOMY (Isagogae breves)—Jacopo Berengario da Carpi, transl. from Latin, introd. & historical notes by L. R. Lind, anatomical notes by Paul G. Roofe—*Univ. of Chicago Press*, 228 p., illus., \$5. Sixteenth century treatise of interest to the medical-anatomical historian.

SILICONES—R. N. Meals and F. M. Lewis—*Reinhold*, 267 p., illus., \$5.95. On the manufacture, properties and applications of the silicones, with data on the properties of silicone resins, fluids and rubbers at high temperatures.

SOCIAL CONTROL AND THE FOUNDATIONS OF SOCIOLOGY: Pioneer Contributions of Edward Alsworth Ross to the Study of Society—Edgar F. Borgatta and Henry J. Meyer, Eds.—*Beacon Press*, 211 p., \$4.50. Pioneering classics (1901, 1905) on mobs and manners, with less important illustrative detail eliminated.

SPACEPORT U.S.A.: The Story of Cape Canaveral and the Air Force Missile Test Center—Martin Caidin—*Dutton*, 380 p., illus., \$4.95. Only a decade ago a near wilderness of sand and scrub, the 15,000-acre Cape is today the laboratory of the space age, the launching site of missiles and satellites.

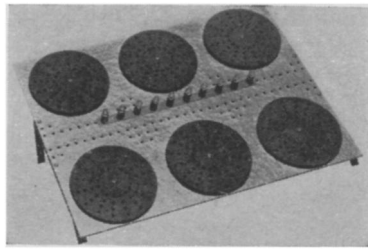
STABILIZATION OF SOIL WITH CALCIUM CHLORIDE: Annotated Bibliography 24—Floyd O. Slate and A. W. Johnson—*Highway Res. Bd.*, 96 p., paper, \$2.

THE STORY OF THE PLANT KINGDOM—Merle C. Coulter, rev. by Howard J. Dittmer—*Univ. of Chicago Press*, rev. ed., 326 p., illus., \$5. Classic botany textbook reorganized to include developments of modern botanical research and taxonomy.

SYMBOLIC LOGIC AND INTELLIGENT MACHINES—Edmund C. Berkeley—*Reinhold*, 203 p., \$6.50. Practical explanation of the principles, methods and purposes of symbolic logic and

(Continued on p. 350)

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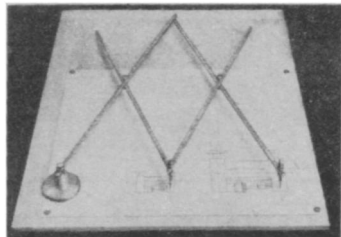
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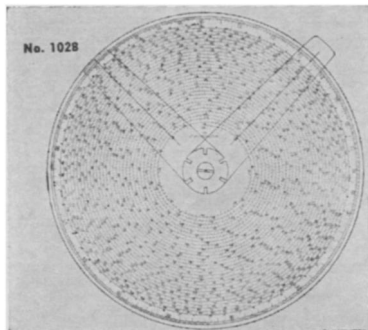
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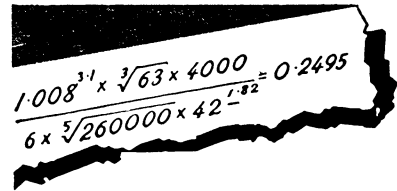
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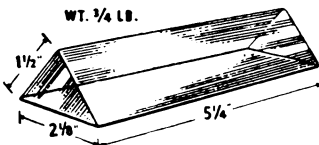
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Books of the Week

(Continued from p. 349)

Boolean algebra, on which the programming of intelligent machines is based.

THERMODYNAMICS—Gordon J. Van Wylen—Wiley, 567 p., illus., \$7.95. Textbook for engineering students with rigorous treatment of fundamentals.

TRIGONOMETRIC SERIES, Vols. I and II—A. Zygmund—Cambridge Univ. Press, 2nd ed., 383 and 354 p. resp., \$15 each, \$27.50 set. Revision takes account of recent work in Fourier series and related branches of pure mathematics, topics are treated in greater detail than before.

THE WORLD OF CAVES—Anton Lubke, transl. from German by Michael Bullock—Coward-McCann, 295 p., illus., \$5. Describes what speleologists find in the dark cavities of the earth, and their geological and historical significance.

Science News Letter, May 30, 1959

EDUCATION

NSF Sponsors Students In Basic Research

SOME 2,000 undergraduates will be taking part in "real" scientific research beginning this summer.

Grants totaling \$1,700,000 have been awarded to about 200 colleges and universities throughout the country. This represents an attempt to "capture the teachable moment when the young undergraduate shows early interest in scientific research," Dr. Alan T. Waterman, director of the National Science Foundation, said. The NSF is supporting the new Undergraduate Research Participation Program.

A list of the institutions receiving grants is available from the NSF, together with program dates and directors. Inquiries about specific programs should be addressed to the appropriate director, not to the Science Foundation.

Science News Letter, May 30, 1959

Questions

ASTRONOMY—Where is the device located that makes it possible to record distant stars' ultraviolet light? p. 341.

INVENTIONS—What are some of the nation's most wanted inventions? p. 343.

PUBLIC HEALTH—How great an increase in the number of paralytic polio cases was there in 1958 compared with 1957? p. 339.

Photographs: Cover, Chas. Pfizer & Co., Inc.; p. 339, Curtiss-Wright Corporation; p. 341, Allen Long; p. 343, Harvard University; p. 352, Baby Bathinette Corp.