

Books of the Week

For the editorial information of our readers, books received for review are listed. For convenience purchase of any U. S. Book in print, priced at 95¢ or over, 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.

ALUMINUM FROM WATER: The Challenge of Canadian Riverpower—Sabra Holbrook—*Coward-McCann*, 121 p., photographs, \$2.75. Picture and word story of an industry.

ANALYTIC GEOMETRY—John W. Cell—*Wiley*, 3rd ed., 330 p., \$4.95. Problem material expanded and revised.

THE ANATOMY OF JUDGMENT: An Investigation into the Processes of Perception and Reasoning—M. L. Johnson Abercrombie—*Basic Bks*, 156 p., illus., \$4.50. Biologist-educator investigates how psychology can be employed to raise the thinking levels of students.

APPLIED GEOGRAPHY—L. Dudley Stamp—*Penguin*, 208 p., maps, paper, 95¢. Principles of geological survey and analysis as applied to problems of Britain today.

ARMY RESEARCH TASK SUMMARY, 1960, Vol. 1: Medical, Biological, and Social and Behavioral Sciences. **Vol. 2:** Chemistry. **Vol. 3 and 4:** Physics (Part 1 and 2). **Vol. 5:** Engineering. **Vol. 6:** Materials Technologies, Mathematics, and Operations Research—Wm. J. Ely, Dir.—*OTS*, 387 p., 375 p., 400 p., 400 p., 420 p., 415 p., paper; Vols. 1-4, \$3.75 each; \$4.25, \$4.50. Brief descriptions of research projects.

BIOLOGICAL AND MEDICAL ELECTRONICS—Ralph W. Stacy—*McGraw*, 308 p., illus., \$9.50. Text and reference for students, laboratory workers and clinicians.

BORN FREE: A Lioness of Two Worlds—Joy Adamson—*Pantheon Bks*, 220 p., photographs, \$4.95. Unusual story by wife of Kenya Game Warden who succeeded in rearing an affectionate, yet wild lioness.

CALCULATION OF BRIGHTNESS OF LIGHT in the Case of Anisotropic Scattering (Part 1)—E. M. Feigelson and others, transl. from Russian by G. B. Rozenberg—*Consultants Bureau*, 104 p., \$8.

CHEMICAL TECHNOLOGY OF PETROLEUM—

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William A. Gruse and Donald R. Stevens—*McGraw*, 3rd ed., 675 p., \$15. Covers the chemistry of petroleum and modern methods, standards and practices of petroleum distillation and refining.

CHESS STRATEGY—Edward Lasker, transl. by J. Du Mont—*Dover*, 282 p., paper, \$1.50. Unabridged reprint.

COCHITI: A New Mexico Pueblo, Past and Present—Charles H. Lange—*Univ. of Texas Press*, 618 p., illus., \$10. Anthropological study of an Indian pueblo.

COMMUNICATIONS—Charles A. Marshall—*Roy Pubs.*, 64 p., illus., \$2.50. Acquaints young people with recent British advances in radio communication.

"CONVERSION TABLES" of U.S.A. and British Units into Metric and Vice Versa—*European Technical Coverage*, 47 p., \$2.56. For quick reference.

FAR EAST: Travel Guide—John C. Caldwell—*Day*, 246 p., \$4. Practical tourist information on Japan, Korea, Hong Kong, Taiwan, Cambodia, Laos, Malaya, Philippines and Vietnam.

THE GREAT EXPLORATIONS: Africa—T. K. Butcher—*Roy Pubs.*, 191 p., illus., \$3.50. Of the men and expeditions that explored the continent, from early Egyptians to Livingstone.

HOW THINGS WORK—Martin Mann—*Crowell*, 146 p., illus. by Ava Morgan, \$2.75. Simple explanations of ten modern machines, such as automatic transmission and ballpoint pens, and the scientific principles behind them.

HOW TO GROW ROSES—John Paul Edwards and Sunset Magazine Staff—*Lane Pub. Co.*, rev. ed., 88 p., illus., paper, \$1.75. Guide for gardeners.

AN INTRODUCTION TO PRACTICAL INFRARED SPECTROSCOPY—A. D. Cross—*Butterworths (Canada)*, 80 p., paper, \$3.50. Standard reference data.

MICROSCOPIC SEDIMENTARY PETROGRAPHY—Albert V. Carozzi—*Wiley*, 485 p., illus., \$11.50. Textbook supplying "ideal" microscopic pictures of rock types and main trends of research.

MODERN HIGH SCHOOL BIOLOGY: A Recommended Course of Study—Dorothy F. Stone—*Teachers College*, 96 p., paper, \$1.50. Course requiring greater teacher competence and student effort.

NEWER VIRUS DISEASES: Clinical Differentiation of Acute Respiratory Infections—John M. Adams—*Macmillan*, 292 p., illus., \$5.75. Pediatrician correlates advances in viral research.

PEONIES, OUTDOORS AND IN—Aino & Irene

Nehrling—*Hearthside Press (N. Y.)*, 288 p., illus., \$5.95. Guide to selecting and growing herbaceous and tree peonies.

THE PHILOSOPHY OF SCIENCE: An Introduction—Stephen Toulmin—*Harper*, 176 p., paper, \$1.25. Reprint of 1953 edition.

PRINCIPLES OF QUANTUM MECHANICS: Non-relativistic Wave Mechanics with Illustrative Applications—William V. Houston—*Dover*, 288 p., paper, \$1.85. Unabridged reprint.

PROPERTIES OF DOUBLE STARS: A Survey of Parallaxes and Orbits—Leendert Binnendijk—*Univ. of Pa. Press*, 349 p., illus., \$12.50. Introduction to astronomy, spectroscopy and photometry.

ROCK DEFORMATION (A Symposium)—David Griggs and John Handin, Eds.—*Geological Soc. of Am.*, 382 p., illus., \$12. Expanded and revised papers on experimental and theoretical rock deformation research.

ROCKS AND THE WORLD AROUND YOU—Elizabeth Clemons—*Coward-McCann*, 109 p., illus. by Robert Gartland, \$3.50. Young rock collector's guide.

SCIENTIFIC EXPLANATION: A Study of the Function of Theory, Probability and Law in Science—Richard Bevan Braithwaite—*Harper*, 374 p., paper, \$1.85. Course of lectures delivered in 1946 at University of Cambridge.

SCIENTISTS BEHIND THE INVENTORS—Roger Burlingame—*Harcourt*, 192 p., \$3.25. Makes clear the difference between basic science and its applications by discussing the contributions of some key scientists.

THE SEARCH FOR ORDER: The Development of the Major Ideas in the Physical Sciences from the Earliest Times to the Present—Cecil J. Schneer, foreword by Henry Margenau—*Harper*, 398 p., illus., \$6. For the general reader.

THE SEVEN AGES OF WOMAN—Elizabeth Parker; Evelyn Breck, Ed.—*Johns Hopkins Press*, 609 p., \$6.50. Gynecologist traces in non-technical terms woman's physical and psychological growth.

SEX DIFFERENTIATION AND DEVELOPMENT: Endocrinology Memoir No. 7—C. R. Austin, Ed.—*Cambridge Univ. Press*, 198 p., illus., \$8.50. 1958 Conference Proceedings dealing with single cells as well as complex organisms.

SPACE SENTRY—Arnold Brophy—*Dodd*, 92 p., photographs, \$2.75. Tells story of U.S. missileman in service.

A STATISTICAL MANUAL FOR CHEMISTS—Edward L. Bauer—*Academic*, 156 p., \$4.75. For chemists who perform experiments, make measurements, and interpret data.

STRUCTURE AND CHANGE: An Introduction to the Science of Matter—G. S. Christiansen and Paul H. Garrett—*Freeman*, 608 p., illus. by E. L. Gillespie, \$8.75. Introduces the student to the scientific view of the physical world, concentrating on the structure of matter.

THE STUDY OF ELEMENTARY PARTICLES BY THE PHOTOGRAPHIC METHOD: An Account of the Principal Techniques and Discoveries illustrated by an Atlas of Photomicrographs—C. F. Powell, P. H. Fowler and D. H. Perkins—*Pergamon*, 669 p., illus., \$40. On the methods of recording the tracks of charged particles, such as mesons, hyperons and anti-nucleons. Many hitherto unpublished photographs and others of historical interest included.

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SURFACE EFFECTS ON SPACECRAFT MATERIALS: First Symposium, 1959—Francis J. Clauss, Ed.—*Wiley*, 404 p., illus., \$11.50. Deals with the requirements of materials for temperature-control of surfaces of spacecraft and the behavior of material surfaces in space.

TECHNICAL COMMUNICATION—George C. Harwell—*Macmillan*, 332 p., \$3.75. Textbook for the engineering student.

THIS IS OUTER SPACE—Lloyd Motz—*Archer House*, 200 p., illus. by Phil Sentry, \$4.95. Astronomer presents in nontechnical language the fundamental theories which, applied to observed data, have led to our current knowledge of astrophysics.

THUNDERSTORM—Thelma Harrington Bell—*Viking*, 128 p., illus. by Corydon Bell, \$3. Tells young people in detail how a thunderhead builds up and what causes lightning.

TICKS: A Monograph of the Ixodoidea, Part V: On the Genera Dermacentor, Anocentor, Cosmiomma, Boophilus & Margaropus—Don R. Arthur—*Cambridge Univ. Press*, 251 p., illus., \$11.50.

TRANSISTOR PROJECT—Louis E. Garner, Jr. and others—*Gernsback Library*, 160 p., illus., paper, \$2.90. Outlines construction projects on radios, instruments and accessories.

THE UNLIKELY HERO: Heinrich Schliemann's Quest for Troy—Alan Honour—*Whittlesey House*, 175 p., illus. by Grisha Dotzenko, \$3. Juvenile biography.

VACATIONS ABROAD: Courses, Study Tours, Work Camps, 1960—*UNESCO* (Columbia Univ. Press), 12th ed., 186 p., paper, \$1.25. Information on 1,500 educational and cultural vacation activities taking place in 1960 in more than 75 countries, open to young people, students and teachers.

WHAT A BOY SHOULD KNOW ABOUT SEX—Bernhardt S. Gottlieb—*Bobbs*, 192 p., \$2.95. Practising psychiatrist talks of sex in the light of normal human psychology.

WHAT COLLEGE STUDENTS THINK—Rose K. Goldsen and others—*Van Nostrand*, 272 p., \$5.95. Based on an eleven-university study by four sociologists, book analyzes students' data, their attitudes toward education, career, personal, national and international questions.

WHEN THE STARS COME OUT—Robert H. Baker—*Viking*, rev. ed., 182 p., illus., paper, \$1.25. Reprint of astronomer's explanation of the heavens, for young people.

THE WHITE SPIDER: The Story of the North Face of the Eiger—Heinrich Harrer, transl. from German by Hugh Merrick—*Dutton*, 240 p., photographs, \$6.95. Mountaineering in the Swiss Alps.

WOMEN AND FATIGUE: A Woman Doctor's Answer—Marion Hilliard—*Doubleday*, 175 p., \$2.95. Discusses physical and psychological aspects of fatigue.

THE WORLD OF FEELING—J. D. Carthy—*Roy Pubs.*, 64 p., 33 plates, diagrams by W. Tschernetzky, \$2.50. Acquaints young people with recent research findings about sense organs in animals and man.

Science News Letter, May 7, 1960

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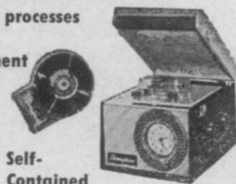
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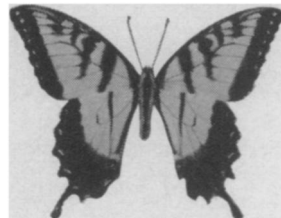
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