

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.

THE ANCIENT MYTHS—Norma Lorre Goodrich—*New Am. Lib.*, 256 p., illus., paper, 50¢. Original edition, recreates some of the great myths of ancient Sumer, Egypt, Crete, Greece, Persia, India and Rome.

ANDREE'S STORY: The Complete Record of His Polar Flight, 1897—S. A. Andree, Nils Strindberg and K. Fraenkel, transl. from Swedish, introd. by Vilhjalmur Steffansson—*Viking*, 246 p., illus., paper, \$1.45. From the diaries and journals found on White Island, summer 1930, and edited by Swedish Society for Anthropology and Geography.

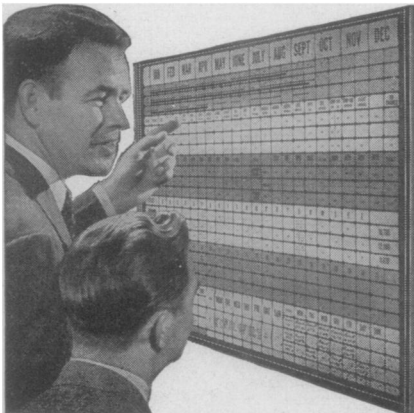
ANTARTICA—Emil Schulthess, transl. by Peter Gorge—*Simon & Schuster*, 179 p., illus., \$15. Magnificent photographic documentation of the nature and beauty of Antarctica, including record of the course of the sun and many documentary pictures of U. S. 1958 IGY expedition. Printed in Switzerland.

THE APPLICATION OF QUANTITATIVE METHODS IN ARCHAEOLOGY—Robert F. Heizer and Sherburne F. Cook, Eds.—*Quadrangle Bks.*, 358 p., illus., \$7.50. Papers and discussions at the 1959 symposium held in Austria by the Wenner-Gren Foundation for Anthropological Research.

ASTRONOMY FOR YOU—*Edmund Scientific Co.*, 16 p., illus., paper, single copies free upon request direct to publisher, Barrington, N. J. Short history of astronomy and information for the amateur astronomer, in comic-book style.

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Analysis of Consistency among Attitude Components—Milton J. Rosenberg and others—*Yale Univ. Press*, 239 p., \$5. Analyzes the relationship between affective, cognitive and behavioral components of attitude modification.

THE AUTOBIOGRAPHY OF SCIENCE—Forest Ray Moulton and Justus J. Schifferes—*Doubleday*, 2nd rev. ed., 748 p., \$5.95. Anthology recording notable scientific achievements in the scientists' own words.

BIBLIOGRAPHY AND INDEX OF GEOLOGY EXCLUSIVE OF NORTH AMERICA, Vol. 23—Marie Siegrist, Mary C. Grier and others—*Geological Soc. of Am.*, 822 p., \$13. Covers the literature on the geology of the eastern Atlantic and western Pacific Ocean basin published during 1958.

A COMPENDIUM OF SPHERICAL ASTRONOMY—Simon Newcomb—*Dover*, 444 p., paper, \$2.25. Reprint of 1906 edition, sets forth basic mathematical methods of determining, correcting or reducing observations of fixed stars.

DEVELOPMENT OF NUCLEAR RESEARCH IN THE CHINESE PEOPLE'S REPUBLIC—Ch'ien San-ch'iang, transl. from Chinese—*OTS*, 6 p., 50¢. Article appeared in Russian-language Bulletin of the Academy of Sciences USSR, No. 4, 1960.

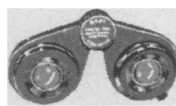
DISCOURSE ON BODIES IN WATER—Galileo Galilei, transl. by Thomas Salusbury, introd. & notes by Stillman Drake—*Univ. of Ill.*, 115 p., illus., \$5. Facsimile reprint of 17th century translation.

DISCOVERER: The Story of a Satellite—Michael Chester and Saunders B. Kramer—*Putnam*, 48 p., photographs, \$2.50. Describes in pictures and text the Project Discoverer, its Agena, Thor and Hustler rockets, for young people.

DRUGS AND BEHAVIOR—Leonard Uhr and James G. Miller, Eds.—*Wiley*, 676 p., \$12. Deals authoritatively with the effects of tranquilizers, energizers and other psychoactive drugs on human behavior and experience.

THE EFFECTS OF MASS COMMUNICATION—Joseph T. Klapper—*Free Press*, 302 p., \$5. Attempt to integrate the findings of published research concerning the effectiveness and limitations of mass media in influencing the opinions, values and behavior of their audiences.

ELECTRONIC SURVEYING: 1960 Developments—Rex H. Fulton and others—*Highway Res. Bd.*, Bull. 258, 31 p., illus., paper, 80¢. Discusses and evaluates the use of the tellurometer for highway survey control in four states.



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THE ELEMENTARY PART OF A TREATISE ON THE DYNAMICS OF A SYSTEM OF RIGID BODIES—Edward John Routh—*Dover*, 7th rev. ed., 443 p., paper, \$2.35. Unabridged reprint of 1905 edition.

ESKIMO CHILDHOOD AND INTERPERSONAL RELATIONSHIPS: Nunivak Biographies and Genealogies—Margaret Lantis—*Univ. of Wash. Press*, 219 p., illus., \$4.75. Records recollections of Alaskan Eskimos, isolated in the Bering Sea, covering experiences from about 1880 to 1945.

THE FIGHT FOR THE SEA: The Past, Present, and Future of Submarine Warfare in the Atlantic—Commander David D. Lewis, U.S.N.—*World Pub. Co.*, 350 p., photographs, \$6. Explores present and future military strategy in a struggle between the Soviet Union and the Western Allies for control of the seas.

FOUR BIG YEARS: The Importance of Selecting the Right College—Richard W. Smith and Howard P. Sneath—*Bobbs*, 192 p., \$2.95. Explains the many considerations involved in choosing the right college for the individual boy or girl.

FROM ADOLESCENT TO ADULT—Percival M. Symonds with Arthur R. Jensen—*Columbia Univ. Press*, 413 p., \$8.75. Following up the late Professor Symond's book "Adolescent Fantasy" (1949), this book analyzes the correspondence between adolescent fantasy and the subject's adult experience and personality.

GRAPHIC SURVEY OF CHEMISTRY—William Lemkin; Vinton R. Rawson, Ed.—*Oxford Bk Co.*, rev. ed., 470 p., illus., \$2.10; paper, \$1.25. Also contains model college entrance achievement test with explanatory comments.

HEALTH INSURANCE FOR THE AGED—F. J. Seidner—*Public Affairs Institute*, 63 p., paper, 50¢. Explores the major aspects of this controversial issue and evaluates bills, amendment and proposals before Congress.

INTRODUCTION TO NUCLEAR SCIENCE—Alvin Glassner—*Van Nostrand*, 213 p., illus., \$3.75. Elementary survey of nuclear science and its impact upon the other physical and natural sciences, includes 18 tested experiments using a minimum of special equipment.

JOHN MUIR'S STUDIES IN THE SIERRA—William E. Colby, Ed., foreword by John P. Buwald—*Sierra Club*, 103 p., illus. with sketches by John Muir and photographs by Edward Muybridge, \$3.75. Studies in Sierra mountain sculpture, origin of Yosemite, glacial denudation and formation of soils.

LIVINGSTONE'S PRIVATE JOURNALS, 1851-1853—I. Schapera, Ed.—*Univ. of Calif. Press*, 341 p., illus., \$5. Fully annotated record of Livingstone's two journeys to North-Western Rhodesia, showing author's great interest in natural history.

LOUISIANA BIRDS—George H. Lowery, Jr.—*La. State Univ. Press*, 2nd ed., 567 p., illus. by Robert E. Tucker, photographs, \$7.50. A guide to 387 species of birds written from the regional point of view.

MARINE SCIENCES RESEARCH—U. S. Atomic Energy Commission Division of Biology and Medicine—*OTS*, 40 p., paper, 50¢. Summarizes AEC-sponsored bio-medical work in progress at 13 institutions.

MECHANICAL-ELECTRICAL EQUIPMENT HANDBOOK FOR SCHOOL BUILDINGS: Installation, Maintenance and Use—Harry Terry—*Wiley*, 412 p., illus., \$9.50.

NEW MATHEMATICS: A Unified Course for Secondary Schools, Vol. II—K. S. Snell and J. B. Morgan—*Cambridge Univ. Press*, 304 p., \$2.25. Each chapter ends with exercises and puzzles.

OUTER SPACE PHOTOGRAPHY FOR THE AMATEUR—Henry E. Paul—*Amphoto*, 124 p., photographs, \$2.50. Designed to encourage and guide the amateur photographer to try his hand at

photographing star trails, moon, sun, meteors and rockets with readily available photographic equipment.

PHYSICS FOR EVERYBODY—Germaine and Arthur Beiser, foreword by Henry A. Barton—*Dutton*, rev. ed., 191 p., illus., paper, \$1.15. Uncomplicated introduction to the basic laws and forces in physics, written for the general reader.

RUSSIAN-ENGLISH DICTIONARY OF OPERATIONAL, TACTICAL AND GENERAL MILITARY TERMS—N. N. Shkodunovich, Ed., transl. from Russian by U. S. Army—*OTS*, 359 p., paper, \$5. Defines 1,500 Russian operational, tactical and other military terms and concepts, originally published by the USSR Ministry of Defense for Soviet officers.

THE SCIENCE DOCTORATES OF 1958 AND 1959: Their Numbers, Characteristics and Employment—National Academy of Sciences-National Research Council—*National Science Foundation (GPO)*, 28 p., paper, 25¢.

SCIENTIFIC PROGRESS, THE UNIVERSITIES AND THE FEDERAL GOVERNMENT—President's Science Advisory Committee, G. B. Kistiakowsky, Chmn.—*White House (GPO)*, 33 p., paper, 15¢. Presents specific conclusions and recommendations.

SOLID STATE PHYSICS: Advances in Research and Application, Vol. II—Frederick Seitz and David Turnbull, Eds.—*Academic*, 438 p., illus., \$12.50. Articles on semiconductor behavior, physics at high pressure and cyclotron resonance.

SPECIFICATION AND ENGINEERING WRITER'S MANUAL—Thomas S. Sawyer—*Nelson-Hall*, 231 p., \$6.95. Describes how to write properly prepared specifications and engineering documents.

STRUCTURE AND FUNCTION OF MUSCLE, Vol. II: Biochemistry and Physiology. Vol. III: Pharmacology and Disease—G. H. Bourne, Ed.—*Academic*, 593 p., 489 p., illus., \$16.50, \$15.00. Encyclopedic reference work concerning all aspects of muscle, skeletal muscle in particular. Includes comprehensive bibliographies.

STUTTERING AND WHAT YOU CAN DO ABOUT IT—Wendell Johnson—*Univ. of Minn. Press*, 208 p., \$3.95. Offers guidance, based on laboratory research, clinical observation and personal experience, to parents, teachers, doctors, friends and relatives of those who stutter.

TABLES AND NOMOGRAMS OF HYDROCHEMICAL ANALYSIS—I. Yu. Sokolov, transl. from Russian—*Consultants Bureau*, 85 p., paper, \$4.35. Tables for converting water analysis from one form to another.

THOUGHT REFORM AND THE PSYCHOLOGY OF TOTALISM: A Study of "Brainwashing" in China—Robert Jay Lifton—*Norton*, 510 p., \$6.95. A psychiatrist's objective analysis and psychological evaluation of the process of "thought reform" applied to Western prisoners and Chinese intellectuals; based upon research conducted in Hong Kong in 1954-55.

TOXICOLOGY: Mechanisms and Analytical Methods, Vol. I—C. P. Stewart and A. Stolman, Eds.—*Academic*, 774 p., \$22. Comprehensive reports on the many advances made in the methods of securing toxicological analyses.

TRANSLATION OF SOVIET ARTICLE URGING PERMANENT SUSPENSION OF NUCLEAR TESTING—Ye. K. Federov—*OTS*, 9 p., 50¢. Soviet view on criteria for detection of nuclear explosions as discussed at conferences of experts late in 1959.

TREES, SHRUBS AND WOODY VINES OF THE SOUTHWEST—Robert A. Vines—*Univ. of Texas Press*, 1104 p., illus. by Sarah Kahlden Arendale, \$25. Describes 1231 species covering plant habitats ranging from the subtropical lower Gulf Coast through temperate environments to the mountain areas of the West, en-

hanced by more than 1200 detailed botanical drawings.

TUBES AND CIRCUITS—George J. Christ—*Gernsback*, 192 p., illus., \$5; paper \$3.45. Explains theory and basic components for the technician.

12 PIONEERS OF SCIENCE—Harry Sootin—*Vanguard*, 254 p., illus., \$3. Biographical profiles for young people, explaining the significance of the work of such scientists as Pascal, Volta, Darwin, Hertz and Becquerel.

ULTRASONICS AND ITS INDUSTRIAL APPLICATIONS—O. I. Babikov, transl. from Russian—*Consultants Bureau*, 224 p., illus., \$9.75. Discusses generation and application of ultrasound in mechanical engineering and chemistry, metallurgy and medicine, in light industry, agriculture and power engineering.

THE UNION PACIFIC RAILROAD: A Case in Premature Enterprise—Robert William Fogel—*Johns Hopkins Press*, 138 p., \$3.50. Documented analytical examination of the political and institutional factors that influenced the construction of the first Pacific railroad.

WATER AND ITS RELATION TO SOILS AND CROPS—M. B. Russell, Coordinator—*Academic*, 131 p., illus., paper, \$4. Reprinted from *Advances in Agronomy, Vol. II*. Definitive and critical statement of present knowledge in the field.

WELFARE IN AMERICA—Vaughn Davis Bornet—*Univ. of Okla. Press*, 319 p., \$4.95. Analytical examination of public and private welfare instrumentalities and the techniques employed by them.

• Science News Letter, 79:28 January 14, 1961

SURGERY

Plastic Surgery Helps Morale of Worriers

➤ A MAN WORRIED over his bat-ears and a girl concerned over her undeveloped breasts were made normal by plastic surgery, it is reported in the *British Medical Journal*, Dec. 17, 1960. Both had been diagnosed as mentally ill.

Drs. David Stafford-Clark and Patrick Clarkson of Guy's Hospital, London, collaborated on research concerning the "surgery of appearance." They found that patients should be carefully selected for operations involving combined plastic and psychiatric treatment.

Plastic surgeons and psychiatrists share a joint awareness, the scientists said, of the close relationship linking "facial appearance, bodily proportion, and the overall function and structure of human beings to their morale and personal identification."

The scientists emphasized that combined psychiatric and surgical appraisal must be made of cases applying for plastic surgery. Surgery should never be undertaken for psychotic patients during periods of acute upsets. Three factors should be considered:

1. The degree of reasonable success to be expected from a technical standpoint.
2. The extent to which the patient is capable of a realistic appreciation of the risks, and is affected by the state he is in.
3. The patients' capacity to tolerate failure of plastic surgery, as assessed by psychiatric examination and rapport.

Both suicidal attempts and assaults on the plastic surgeon have occurred after plastic operations that are unsatisfactory.

• Science News Letter, 79:29 January 14, 1961

YOUR SKIN AND ITS CARE

By H. T. Behrman, M. D., and O. L. Levin, M. D.

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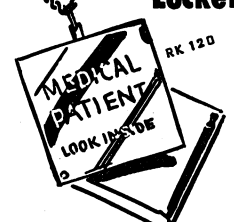
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