

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.

ACADEMY OF MEDICAL SCIENCES OF THE USSR: History and Organization, 1944-1959—Galina V. Zarechnak—*U. S. Public Health Service*, Monograph No. 63, 48 p., paper, single copies free upon request to publisher, Washington 25, D. C. Describes activities of the greatest scientific medical institution of the USSR.

AN ARCHAEOLOGICAL STUDY OF GIBEAH (Tell El-Ful) and **THE EXCAVATION OF THE CONWAY HIGH PLACE (Petra) AND SOUNDINGS AT KHIRBET ADER**—Lawrence A. Sinclair and Ray L. Cleveland—*Am. School of Oriental Research*, 97 p., 59 plates, \$9. Monographs on the unpublished reports of excavations in 1933-34.

AUDIO-VISUAL TECHNIQUES IN TEACHING FOREIGN LANGUAGES: A Practical Handbook—Theodore Huebener—*N. Y. Univ. Press*, 163 p., illus., \$3.25. Describes the use of both simple and elaborate aids to elementary foreign language instruction.

THE CHEMISTRY AND BIOLOGY OF SIALIC ACIDS AND RELATED SUBSTANCES—Alfred Gottschalk—*Cambridge Univ. Press*, 115 p., illus., \$4.50. Monograph correlates throughout the biological observations and the chemical findings on the subject of sialic acids.

CHEMOTHERAPY IN EMOTIONAL DISORDERS: The Psychotherapeutic Use of Somatic Treatments—Frederic F. Flach and Peter F. Regan, III—*McGraw*, 314 p., \$10. Systematic discussion of the clinical effectiveness of somatic therapies and the integration of treatment methods.

CIVILIAN POWER REACTOR PROGRAM, Part III: Status Report on Aqueous Homogeneous Reactors as of 1959—*U. S. Atomic Energy Commission (GPO)*, 184 p., illus., paper, \$1.25.

CONTROL TECHNIQUES IN FILM PROCESSING—Walter I. Kisner, Ed.—*Soc. of Motion Picture Engs.*, 181 p., illus., \$5. Principles and methods of process control as applied to processing of black-and-white motion-picture film.

DAEDALUS, Special Issue Fall 1960: Arms Control—Gerald Holton, Ed., foreword by Jerome B. Wiesner—*Am. Acad. of Arts & Sciences (Wesleyan Univ. Press)*, 404 p., paper, \$2. Devoted to the problems of arms limitation attempts, to provide basic information needed for intelligent public discussion of the disarmament problem.

DELINQUENCY AND THE ADOLESCENT CRISIS—Helen L. Wiemer—*Children's Bureau (GPO)*, 7 p., paper, 15¢. Considers certain of Erik Erikson's formulations about adolescents as basis for action-research.

ENGINEERING MECHANICS: Statics and Dynamics—Irving H. Shames—*Prentice-Hall*, 656 p., illus., \$9.75. Presents concepts in line with current theory, with emphasis on vector treatment of statics and dynamics.

ERROR AND DECEPTION IN SCIENCE: Essays on Biological Aspects of Life—Jean Rostand, transl. from French by A. J. Pomerans—*Basic Bks.*, 196 p., \$4. Includes essays on legal aspects of biological discoveries and on uses of the camera as a tool for studying life.

EXPLORING GLACIERS WITH A CAMERA—A. E. Harrison—*Sierra Club*, 71 p., 60 photographs, paper, \$1.95. Brief discussion of glacial features and of the value and techniques of photographic observations, magnificently illustrated.

FIGHTER AIRCRAFT OF THE 1914-1918 WAR—W. M. Lambertson, foreword by E. F. Cheesman, Ed.—*Harleyford Pubs. (Aero Pubs)*, 223 p., illus. by J. D. Carrick and F. Yeoman, photographs, \$8.50. Complete record of fighter planes of the First World War.

FIGHTS, GAMES AND DEBATES—Anatol Rapaport—*Univ. of Mich. Press*, 400 p., illus., \$6.95. Mathematician investigates methods by which we can understand, and perhaps control, human conflict on the interpersonal, organizational or international level.

FREE AND INEXPENSIVE EDUCATIONAL AIDS—Thomas J. Pepe—*Dover*, 289 p., paper, \$1.35. Lists 1,500 selected booklets, folders, films, charts and slides, 94% free, arranged by subject, fully indexed.

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THE FUTURE OF MAN: The BBC Reith Lectures 1959—P. B. Medawar—*Basic Bks.*, 128 p., \$3. Biologist's essays on the meaning of fitness, the limits of improvement, the genetic system of man, and intelligence and fertility.

GALILEO GALILEI ON MOTION AND ON MECHANICS: De Motu (ca. 1590) and Le Meccaniche (ca. 1600)—Transl., introd. and notes by I. E. Drabkin and Stillman Drake—*Univ. of Wis. Press*, 193 p., illus., \$5. Classical texts on Renaissance mechanics.

GARDENS OF WESTERN EUROPE—Frederick G. Meyer, Ed.—*Brooklyn Botanic Garden*, 97 p., 148 photographs, paper, \$1. Concise guide to noteworthy private gardens, parks and botanic gardens open to visitors in 15 European countries.

GENETICS: Genetic Information and the Control of Protein Structure and Function—H. Eldon Sutton, Ed.—*Macy*, 229 p., illus., \$6. Transactions of group discussions at the First Conference, 1959.

HARVESTS AND HARVESTING THROUGH THE AGES—Norman E. Lee—*Cambridge Univ. Press*, 208 p., illus., \$2.95. The story of early beginnings and technological progress in the world's methods of harvesting farm crops.

THE ILLUSTRATED BOOK ABOUT SOUTH AMERICA: Including Mexico and Central America—Benjamin Appel, introd. by Charles F. Berlitz—*Grosset*, 101 p., illus. by Tran Mawicke, \$3.95. Children's encyclopedia about land and people.

AN INTRODUCTION TO THE THEORY OF NUMBERS—Ivan Niven and Herbert S. Zuckerman—*Wiley*, 250 p., \$6.25. Intended for seniors and beginning graduate students.

LABORATORIES IN THE CLASSROOM: New Horizons in Science Education—Fletcher G. Watson and others—*Science Materials Center*, 96 p., illus., paper, \$1.45. Leading science educators suggest tested methods and tools for encouraging "learning by doing" in primary and secondary grades.

LOW-TEMPERATURE TECHNIQUES—F. Din and A. H. Cockett—*Interscience*, 216 p., illus., \$6.50. Emphasizes experimental and industrial applications of low-temperature techniques.

MAN AND SPACE—Clive E. Davis—*Dodd*, 95 p., illus., \$2.75. Popular presentation of U. S. space projects.

MINDS AND MACHINES—W. Sluckin—*Penguin*, 239 p., paper, 95¢. Discusses the workings of electronic brains and the influence the study of them has had on modern psychology.

NORTH ARABIAN DESERT ARCHAEOLOGICAL SURVEY, 1925-50—Henry Field and others—*Peabody Museum*, 286 p., illus., paper, \$8.25. Report on the geology and archaeology of a region that became the crossroads of Euroafrasia (Europe, Africa and Asia). Map included.

PARENT EDUCATION AND THE BEHAVIORAL SCIENCES: Relationship between Research Findings and Policies and Practices in Parent Education—Armin Grams—*Children's Bureau (GPO)*, 52 p., paper, 25¢.

A PICTURE DICTIONARY AND GUIDE TO BUILDING AND CONSTRUCTION TERMS—Benjamin Lipowsky and Murray Bersten—*Arco*, 57 p., 21 plates, \$5; paper \$3. Includes 583 definitions and 20 illustrative diagrams.

POST-CRANIAL SKELETAL CHARACTERS OF BISON AND BOB—Stanley J. Olsen—*Peabody Museum*, 61 p., illus., paper, \$1.75. Field manual to help the archaeologist identify fragments of bones of the North American buffalo.

POWER TO PRODUCE: The Yearbook of Agriculture, 1960—Alfred Stefferud, Ed.—*U. S. Dept. of Agric. (GPO)*, 480 p., illus., \$2.25. Covers many aspects of the great U. S. ability to

(Continued on page 238)

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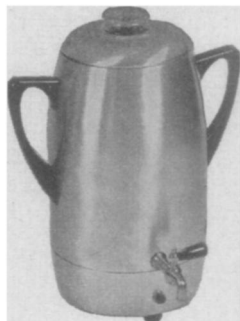
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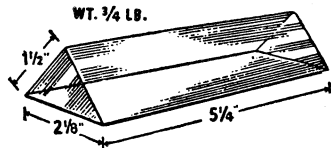
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NATIONAL GEOGRAPHIC MAGAZINES 1888-1960, any issue. Periodical Service, Box 465-SN., Wilmington, Delaware.

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THE STRUCTURE OF THE ATOM—23 PAGES with many diagrams. A completely new system of atomic structure, comprising structural center, but no nucleus. Price 25 cents ppd. C. F. Krafft, 218 Columbia Road, Annandale, Virginia.

Books of the Week

(Continued from page 236)

produce and market agricultural products with the help of technological advances.

A PRIMER ON WATER—Luna B. Leopold and Walter B. Langbein—*Geological Survey (GPO)*, 50 p., illus., paper, 35¢. Tells in nontechnical language about the relation of water to earth and describes the development and use of water supplies.

THE PROCESS OF EDUCATION—Jerome S. Bruner—*Harvard Univ. Press*, 97 p., \$2.75. Noted psychologist evaluates recent experiments in teaching and concludes that the basic concepts of science can be grasped by children far earlier than has been thought possible.

PROFESSIONAL TV REPAIR SECRETS—Art Margolis—*Arco*, 141 p., illus., \$2.50. Thorough guide to TV troubles and repairs.

PROJECT MERCURY—Charles Coombs—*Morrow*, 64 p., illus. by R. G. Smith, \$2.75. Information for young readers about America's man-in-space program.

TUNNELS—Fon W. Boardman, Jr.—*Walck, H. Z.*, 144 p., illus., \$3.50. History of the development of tools and techniques of tunnel building, for young people.

THE WIDER UNIVERSE—Paul Couderc, transl. from French by M. Davidson—*Harper*, 128 p., illus., \$2.25. Fundamental information on such subjects as the structure and rotation of our galaxy and the expansion of the universe.

WORKBOOK FOR WOODY PLANTS—James W. Hardin—*Burgess*, 131 p., illus., paper, \$3.50. Designed for laboratory exercises in dendrology, workbook gives characteristics of orders, families and genera.

• Science News Letter, 78:236 October 8, 1960

Questions

ASTRONAUTICS—Why can't women be astronauts? p. 230.

MEDICINE—What newly reported compound in cigarette smoke may cause lung cancer? p. 227.

PSYCHOLOGY—What were the four tests that best indicated the potentially successful Special Force soldier? p. 234.

Photographs: Cover, James H. Peacock; p. 227, Sloan-Kettering Institute; p. 229, Aero Service Corporation; p. 231, Yale University News Bureau; p. 234, U. S. Army; p. 240, Bell and Howell.

Do You Know

Speedometers on most vehicles vary in accuracy, depending on the amount of tire wear, temperature, load, and other traveling conditions.

Oats growing on highly fertile land, especially if it is rich in nitrogen, tend to fall over and thus make harvesting difficult.

Of all the **television** sets in the world, estimated to be about 76,000,000, more than 65% are in the United States.

The highest mortality rate from motor vehicle **accidents** are found among residents of the western and southwestern areas of the United States.

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