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ADVANCED PROPULSION SYSTEMS: Symposium—Morton Alperin and George P. Sutton, Eds.—*Pergamon*, 237 p., illus., \$6. Papers on fundamental principles of propulsion for space.

ADVANCES IN CATALYSIS and Related Subjects, Vol. XI—D. D. Eley, P. W. Selwood and Paul B. Weisz, Eds.—*Academic*, 384 p., \$12.50.

ADVENTURE IN OIL: The Story of British Petroleum—Henry Longhurst, foreword by Sir Winston Churchill—*Sidgwick*, 286 p., photographs, \$3.15. Pioneering story of first half-century of Middle East oil.

ADVENTURES IN ELECTROCHEMISTRY—Alfred Morgan—*Scribner*, rev. ed., 280 p., illus. by author, \$3.50. History, processes and experiments in electrochemistry, for young people.

ALGEBRAIC THEORIES (Formerly Titled: Modern Algebraic Theories)—Leonard E. Dickson—*Dover*, 276 p., paper, \$1.50. Reprint.

THE AMERICAN SECONDARY SCHOOL—David B. Austin and others—*College Entrance Examin. Bd.*, 74 p., paper, \$2. Sixth Colloquium on College Admissions.

APES, ANGELS, AND VICTORIANS: Darwin, Huxley, and Evolution—William Irvine—*Meridian Books*, 399 p., paper, \$1.45. Reprint of 1955 edition.

AUTONOMY OF PUBLIC COLLEGES: The Challenge of Coordination—Lyman A. Glenn—*McGraw*, 325 p., \$5.95. Study provides data on the authority of state executive and legislative agencies.

BASIC RESEARCH IN THE NAVY, Vols. I & II—Arthur D. Little, Inc.—*Off. of Naval Res. (OTS)*, 189 p., charts, \$7. Findings of two-year study of basic research in industry, government and universities.

CHEMICAL AND MOLECULAR BASIS OF NERVE ACTIVITY—David Nachmansohn—*Academic*, 235 p., \$7.50. Comprehensive presentation.

CHRONIC ILLNESS IN A RURAL AREA: The Hunterdon Study—Ray E. Trussell and Jack Elinson—*Harvard Univ. Press*, 440 p., \$7.50. Vol. III of Chronic Illness in the United States, published for the Commonwealth Fund.

CURRENT EXPENDITURES PER PUPIL IN PUBLIC SCHOOL SYSTEMS: Urban School Systems, 1957-58—Gerald Kahn, Joel Williams, Dir.—*Off. of Educ. (GPO)*, 71 p., paper, 45¢.

THE DEATH OF ADAM: Evolution and Its Impact on Western Thought—John C. Greene—*Iowa State Univ. Press*, 388 p., illus., \$4.95. Connects the progress in biology with progress in physics and cosmology.

DICTIONARY OF DISCOVERIES—I. A. Langnas, preface by J. Salwyn Schapiro—*Philosophical Lib.*, 201 p., \$5. Lists maritime and continental explorers.

DIMENSIONS, UNITS AND NUMBERS in the Teaching of Physical Sciences—Renee G. Ford and Ralph E. Cullman—*Teachers College*, 49 p., paper, \$1. Monograph stresses need of more mathematics teaching.

DR. IDA: The Story of Dr. Ida Scudder of Vellore—Dorothy Clarke Wilson—*McGraw*, 358 p., \$2.95. Fifty years as a medical missionary in India.

ELECTRIC POWER: Geography of the Soviet Union, IV-B—Victor P. Petrov—*V. P. Kamkin*, 73 p., illus., paper, \$1.25. Russian electric power plants and water resources development.

ELECTRON PHYSICS: The Physics of the Free Electron—O. Klemperer—*Academic*, 248 p., illus., \$7. Advanced undergraduate course.

EMPLOYEE RADIATION HAZARDS AND WORKMEN'S COMPENSATION: Hearings, 86th Congress—*Jt. Committee on Atomic Energy (GPO)*, 858 p., paper, \$2.25.

EXPLORERS AND PENGUINS—Edna M. Andreas—*Scribner*, 90 p., illus. by M. Miller, \$2.75. Entertaining true stories for young readers.

EXTRACTIVE METALLURGY—Joseph Newton—*Wiley*, 532 p., \$9.75. Introductory textbook.

FLAT ROLLED PRODUCTS: Rolling and Treatment—T. E. Dancy and E. L. Robinson, Eds.—*Interscience*, 128 p., illus., \$3.75. Conference proceedings.

HANDBOOK OF CHEMISTRY AND PHYSICS: A Ready-Reference Book of Chemical and Physical Data—Charles D. Hodgman, Robert C. Weast and Samuel M. Selby, Eds.—*Chem. Rubber Pub. Co.*, 41st ed., 3472 p., \$12.

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HISTORICAL ATLAS OF THE HOLY LAND—Emil G. Kraeling, Ed.—*Rand McNally*, 88 p., illus., \$2.95. Maps, photographs and charts, placing important biblical events.

A HISTORY OF BIOLOGY TO ABOUT THE YEAR 1900: A General Introduction to the study of Living Things—Charles Singer—*Abelard-Schuman*, 3rd rev. ed., 580 p., illus., \$6. In layman's language.

A HISTORY OF MECHANICAL INVENTIONS—Abbott Payson Usher—*Beacon Press*, 450 p., illus., paper, \$2.25. With new preface by author.

THE HUMAN BODY: What It Is and How It Works—Mitchell Wilson—*Golden Press*, 140 p., 200 illus. by Cornelius DeWitt, \$4.95. Large format, non-technical.

IGY: YEAR OF DISCOVERY, The Story of the International Geophysical Year—Sydney Chapman—*Univ. of Mich. Press*, 112 p., illus., \$4.95. Word and picture story of the space, earth and ocean probe.

IOWA CHILD WELFARE RESEARCH STATION, STATE UNIVERSITY OF IOWA: The Fortieth Anniversary, 1917-1957—Dorothea McCarthy and others—*Child Development*, 78 p., paper, \$2.50. Research papers.

LAROUSSE ENCYCLOPEDIA OF ASTRONOMY—Lucien Rudaux and G. de Vaucouleurs, rev. by Z. Kopal, introd. by F. L. Whipple—*Prometheus Press (Putnam)*, 506 p., 818 illus., \$15, \$12.50 until 1/1/60. Large format, comprehensive reference work.

LOGIC IN ELEMENTARY MATHEMATICS—Robert M. Exner and Myron F. Roszkopf—*McGraw*, 274 p., \$6.75. Application of logic in mathematics at secondary school level.

MAGIC, SCIENCE AND INVENTION—Amabel Williams-Ellis—*Putnam*, 64 p., illus. by Robert Eggers, \$2. Shows boys and girls why science and invention left magic far behind.

THE MATERIALS OF DEMOGRAPHY: A Selected and Annotated Bibliography—Hope T. Eldridge, foreword by Dudley Kirk—*Population Assn. of Am.*, 222 p., paper, \$2. Covers literature before 1958.

MEN OF ANTARCTICA—Gerald Bowman—*Fleet Pub.*, 191 p., photographs, \$3.95. About Scott, Amundsen, Shackleton, Byrd, Fuchs and Hillary.

MIDWESTERN CONFERENCE ON FLUID & SOLID MECHANICS: Proceedings of 4th and 6th Conference—*Univ. of Texas, Eng. Inst.*, 530 and 465 p., \$12.50 each.

MODERN ELECTRONIC COMPONENTS—G. W. A.

Dummer—*Philosophical Lib.*, 472 p., illus., \$15. Comprehensive British survey.

THE MOTHER-CHILD INTERACTION IN PSYCHOSOMATIC DISORDERS—Ann M. Garner and Charles Wenar—*Univ. of Ill. Press*, 290 p., \$6. Research project derives from psychologists' experience on ward for children with psychosomatic illnesses.

MY NAME IS LEGION: Foundation for a Theory of Man in Relation to Culture—Alexander H. Leighton—*Basic Bks.*, 452 p., \$7.50. First volume of findings of the Stirling County Study of Psychiatric Disorder and Sociocultural Environment.

NEW DIMENSION OF FLIGHT—Lewis Zarem—*Dutton*, 256 p., illus., \$4.50. Pictorial survey of U.S. accomplishments in advanced aviation with non-technical commentary.

ONE CHINESE MOON—J. Tuzo Wilson—*Hill & Wang*, 274 p., illus., \$4.95. Canadian scientist reports on his trip to Red China in 1958.

OUR FRIEND THE FOREST: A Conservation Story—Patricia Lauber—*Doubleday*, 61 p., illus. by A. M. Jauss, \$2. For young readers.

OUR MINERAL RESOURCES—Charles M. Riley—*Wiley*, 338 p., illus., \$6.95. Elementary textbook in economic geology.

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PHYSICIANS FOR A GROWING AMERICA: Report of the Surgeon General's Consultant Group on Medical Education—*PHS (GPO)*, 95 p., paper, 60¢.

PHYSICS AND GEOLOGY—J. A. Jacobs, R. D. Russell and J. Tuzo Wilson—*McGraw*, 424 p., \$9.75. Describes the nature, composition and behavior of the earth, for seniors and graduate students.

PLANT PATHOLOGY: An Advanced Treatise, Vol. I: The Diseased Plant—J. G. Horsfall and A. E. Dimond, Eds.—*Academic*, 674 p., \$22. For the research worker.

PLANT PHYSIOLOGY, A Treatise, Vol. II: Plants in Relation to Water and Solutes—F. C. Steward, Ed.—*Academic*, 758 p., illus., \$22. For advanced and postgraduate students.

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PREMARITAL DATING BEHAVIOR—Winston Ehrmann, introd. by Margaret Mead—*Holt*, 316 p., \$6. Findings of a study of premarital sexual activities in dating as reported by 1,000 male and female college students.

PRINCIPLES OF DAIRY CHEMISTRY—Robert Jenness and Stuart Patton—*Wiley*, 446 p., \$8.75. Textbook.

PROCEEDINGS OF THE 1959 NORTHWEST CONFERENCE ON ROAD BUILDING—*Ore. State Eng. Exper. Station*, 157 p., paper, \$1. Discussion of problems and experiences.

PROPERTIES OF MATTER—F. C. Champion and N. Davy—*Philosophical Lib.*, 3rd ed., 334 p., \$10. British text.

READINGS IN THE LITERATURE OF SCIENCE—William C. Dampier and Margaret Dampier, Eds.—*Harper*, 275 p., paper, \$1.50. Reprint.

REALM OF NUMBERS—Isaac Asimov—*Houghton*, 200 p., illus., \$2.75. Presents the why and wherefore of number concepts.

R-F AMPLIFIERS—Alexander Schure, Ed.—*Rider*, 96 p., paper, \$2.40. Discusses principles and properties of radio frequency amplifiers.

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(Continued on p. 372)

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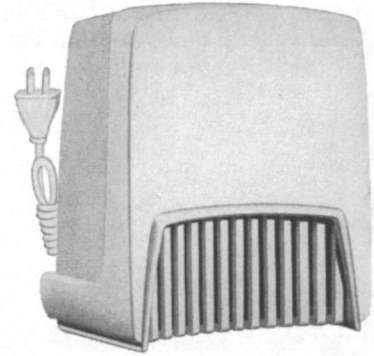
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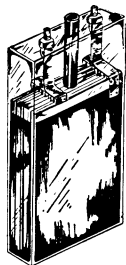
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Books of the Week

(Continued from p. 371)

Praeger, 157 p., illus., \$3.50. Describes the geographical and technical problems involved.

SATELLITES AND SPACE PROBES—Erik Bergaust, foreword by John P. Hagen—*Putnam*, 48 p., photographs, \$2.50. The history of Explorer, Vanguard, Sputnik and other programs.

SCHIFFERES' FAMILY MEDICAL ENCYCLOPEDIA—Justus J. Schifferes—*Permbooks*, 619 p., illus. by L. Bush, paper, 50¢. Reprint of Health Education Council Book.

THE SCHOOL AS AGENT FOR CULTURAL RENAISSANCE—Lawrence K. Frank—*Harvard Univ. Press*, 55 p., \$1.50. 1958 Burton Lecture.

SCIENCE AND TECHNOLOGY IN CONTEMPORARY WAR—Maj. Gen. G. I. Pokrovsky. transl. from Russian & annotated by Raymond L. Garthoff—*Praeger*, 180 p., \$4.50. Soviet military thinking on science and modern warfare.

SHORTWAVE PROPAGATION—Stanley Leinwoll—*Rider*, 151 p., illus., paper, \$3.90. Includes Rider Global Time Conversion Simplifier.

SHOW ME THE WORLD OF SPACE TRAVEL—Julian May—*Pennington*, 62 p., illus. by R. Loew, \$1.95. For boys and girls.

SIXTH INTERNATIONAL CONGRESS AND EXHIBITION OF ELECTRONICS AND ATOMIC ENERGY, Rome, Italy, June 1959: U.S. Papers—*AEC (Off. of Tech. Serv.)*, 81 p., illus., paper, \$2.25. Discusses hazards of radioactive wastes.

SONS OF THE SHAKING EARTH—Eric R. Wolf—*Univ. of Chicago Press*, 303 p., illus., \$5. History of the cultures of the people of Mexico and Guatemala.

SOVIET EDUCATION TODAY—Deana Levin—*De Graff*, 170 p., \$3. Survey of Russian teaching methods, with complete syllabuses.

SPECTRA OF LOW-FREQUENCY OCEAN WAVES—W. H. Munk, F. E. Snodgrass and M. J. Tucker—*Univ. of Calif. Press*, 78 p., paper, \$1.50. Research using computer analyses.

SPEECH AND BRAIN-MECHANISMS—Wilder Penfield and Lamar Roberts—*Princeton Univ. Press*, 286 p., illus., \$6. Neurologists' study of the cerebral mechanisms of speech, and the learning and teaching of language.

STARS IN THE MAKING—Cecilia Payne-Gaposchkin—*Pocket Bks.*—162 p., illus., paper, 50¢. Authoritative account of evolution throughout the universe. Reprint.

THE STORY OF MAPS—Terry Maloney—*Sterling*, 48 p., illus. by author, \$2.50. History of map making for young readers.

THE STORY OF SPIDERS—Dorothy E. Shuttlesworth—*Garden City Bks.*, 57 p., illus. by Su Zan N. Swain, \$2.95. For young naturalists.

STUDIES OF THE HYDROGENATION OF ETHYLENE OVER COPPER-NICKEL ALLOYS—W. Keith Hall and P. H. Emmett—*Mellon Institute*, 9 p., paper, free upon request direct to publisher, 4400 5th Ave., Pittsburgh 13, Pa.

SUGARCANE AND ITS DISEASES—Claude W. Edgerton—*La. State Univ. Press*, rev. ed., 301 p., illus., biblio., \$7.50. Reference book.

SUN AND SHADOW AT ASWAN: A Commentary on dams and reservoirs on the Nile at Aswan, yesterday, today, and perhaps tomorrow—Herbert Addison—*Chapman & Hall*, 166 p., illus., \$2.70. Mainly about Assouan Dam.

TEACHING COMPREHENSIVE MEDICAL CARE: A Psychological Study of a Change in Medical Education—Kenneth R. Hammond and Fred Kern, Jr.—*Harvard Univ. Press*, 642 p., \$10. About the General Medical Clinic.

TRIP CHARACTERISTICS AND TRAFFIC ASSIGN-

MENT—Jacob Silver and others—*Highway Res. Bd.*, Bull. 224, 135 p., paper, \$2.60.

THE VEGETATION OF WISCONSIN: An Ordination of Plant Communities—John T. Curtis—*Univ. of Wis. Press*, 657 p., illus., \$7.50. Definitive survey.

VISION IN MILITARY AVIATION—Joseph W. Wulfeck, Alexander Weisz and Margaret W. Raben—*USAF (OTS)*, 378 p., illus., paper, \$5. Describes capabilities and limitations of vision.

VISUALIZED GENERAL SCIENCE—William Lemkin—*Oxford Bk. Co.*, rev. ed., 410 p., illus., paper \$1.15. Ninth-year course.

THE WEAPON ON THE WALL: Rethinking Psychological Warfare—Murray Dyer—*Johns Hopkins Press*, 269 p., \$6. On mastering "political communication."

YOUR CHILD IN A SCIENTIFIC WORLD—Albertina A. Weinlander—*Doubleday*, 192 p., \$2.95. For parents, how to encourage a child's curiosity at various ages, community resources, bibliography, list of science clubs and materials.
Science News Letter, November 28, 1959

ASTRONAUTICS

Space Capsule Mock-Up Passes Water Tests

See Front Cover

A MOCK-UP of the project Mercury space capsule is being used to train the astronauts in methods of leaving the space vehicle after the first American returns from orbital flight around the earth to a planned landing in the Atlantic Ocean.

The photograph on the cover of this week's SCIENCE NEWS LETTER shows a McDonnell Aircraft Corporation engineer demonstrating one method of exit from the capsule. The test was conducted at the corporation's St. Louis plant where the capsule is being built for the National Aeronautics and Space Administration.

Four large flotation bags are automatically inflated upon landing and give the capsule stability and buoyancy in the water.

Science News Letter, November 28, 1959

Questions

CHEMISTRY—What is the significance of the heterocyclic compounds? p. 359.

MEDICINE—Where is trachoma most prevalent? p. 365.

OCEANOGRAPHY—How high is the submerged "island" found in the Arctic Ocean? p. 360.

RADIO ASTRONOMY—What temperature has been reported for Venus? p. 357.

Photographs: Cover, McDonnell Aircraft Corporation; p. 357, Nathan S. Kline; p. 359, U. S. Coast and Geodetic Survey; p. 376, Eastman Chemical Products, Inc.