

together definitions in force in December, 1959, from *absolute delay* to *zoning (stepping)*, as well as letter symbols and graphical symbols.

AN INTRODUCTION TO THE EXPERIMENTAL METHOD: For Students of Biology and the Health Sciences—J. Maxwell Little—*Burgess*, 84 p., paper, \$3. Elementary introduction to the principles of the experimental method with emphasis on the simpler and most frequently used statistical concepts.

THE LAST FRONTIER: A Short History of Alaska—Ben Adams—*Hill & Wang*, 181 p., illus. by George Ahgupuk, \$3.50. Highlights of the history of the forty-ninth state.

MECHANICAL MEASUREMENTS—T. G. Beckwith and N. Lewis Buck—*Addison-Wesley*, 559 p., illus., \$8.75. Introductory textbook on modern measurements problems in developmental engineering and in the field of automatic control.

THE MIGHTY THOR: Missile in Readiness—Julian Hart—*Duell*, 271 p., photographs, \$4.50. The story of the first operational ballistic missile, the first one to boost a payload into polar orbit.

MODERN FUNDAMENTALS OF ALGEBRA AND TRIGONOMETRY—Henry Sharp, Jr.—*Prentice-Hall*, 340 p., \$8.65. Modern and rigorous treatment of elementary algebra and trigonometry.

MODERN JUNIOR HIGH SCHOOL SCIENCE: A Recommended Sequence of Courses—Abraham S. Fischler—*Teachers College*, 127 p., paper, \$2. Deals with science programs for grades seven, eight and nine, outlining courses in general science as four units of work per year.

ON BEING A PARENT OF A HANDICAPPED CHILD—Benjamin Spock—*Nat. Soc. for Crippled Children and Adults*, 18 p., illus., paper, 25¢ direct to publisher, 2023 W. Ogden Ave., Chicago 12, Ill. Pediatrician's advice to parents.

PORPOISE AND SONAR—Winthrop N. Kellogg—*Univ. of Chicago Press*, 177 p., illus., \$4.50. Describes extensive research program examining the way in which porpoises navigate in the ocean without the use of vision, smell, taste or touch, presenting evidence on the working of echo-ranging or sonar system.

RARE METALS HANDBOOK—Clifford A. Hampel, Ed.—*Reinhold*, 2nd ed., 715 p., illus., \$20. Fully revised, now includes cesium, chromium, plutonium, rubidium, scandium and yttrium. Arranged for speedy reference.

THE REAL BOOK ABOUT ROBOTS AND THINKING MACHINES—Julian May—*Garden City Bks*, 216 p., illus. by Ray Gooris, \$1.95. Tells boys and girls about history and progress in automation.

ROAD ATLAS: United States, Canada, Mexico—*Rand McNally*, 112 p., 11 x 15 inches, illus., paper, \$1.95. New up-to-date color maps covering 50 states alphabetically, index gives final 1960 census figures.

SILICONES—S. Fordham, Ed.—*Philosophical Lib.*, 252 p., illus., \$10. On the chemistry of organosilicon compounds with systematic treatment of manufacturing processes and the applications of silicones.

SPITFIRE: The Story of a Famous Fighter—Bruce Robertson—*Harleyford Pubs. (Aero Publishers)*, 211 p., illus., photographs, \$8.50. Complete history of the many achievements of this British-designed aircraft, famous during World War II.

STATISTICAL SOURCES REVIEW, Vol I, No. 1—*Gale*, 45 p., paper, monthly; \$20 per year. Monthly survey of newly published sources of current U.S. non-governmental statistical information, including some foreign sources.

A STUDY OF HISTORY, Vol. XII: Reconsiderations—Arnold J. Toynbee—*Oxford Univ. Press*, 740 p., \$10. Historian's "second thoughts" on his earlier ten-volume work, in the light of new research, after visiting a number of Asian and

Latin American countries, and in answer to his critics.

SUNSET FOOD FREEZING CHARTS—Vera Greaves Mrak—*Lane Bk. Co.*, unpagged, paper, 60¢. Charts tell how to prepare and freeze fruits, vegetables, fish, poultry and cooked foods.

SYMPOSIUM ON TECHNICAL DEVELOPMENTS IN THE HANDLING AND UTILIZATION OF WATER AND INDUSTRIAL WASTE WATER—William L. Lamar, Chmn.—*Am. Soc. for Testing Materials*, 92 p., illus., \$3. Among others, papers and discussions on radioactive waste water and on disposal of oil-field brines.

TECHNIQUES IN FLAME PHOTOMETRIC ANALYSIS—N. S. Poluektov, transl. from Russian by C. N. and T. I. Turton—*Consultants*, 219 p., illus., \$9.50. Discussion of basic methods, apparatus, photometric measurement procedure and techniques for determining elements in various materials.

THIS IS THE AIR FORCE ACADEMY—Marian Talmadge and Iris Gilmore, foreword by William S. Stone, Major General, USAF—*Dodd*, 95 p., photographs, \$2.75. Presents life of Academy cadets.

THUNDERBIRDS!—Martin Caidin—*Dutton*, 256 p., illus. by Fred L. Wolff, \$4. The story of the USAF jet precision team famous for their split second sky maneuvers at supersonic speeds.

TONY'S BIRDS—Millicent E. Selsam—*Harper*, 64 p., illus. by Kurt Werth, \$1.95. A first grader's book of discovery.

TOURIST MANUAL FOR RUSSIA: A Pocket Guide Book—John E. Felber—*Hammond*, 4th. rev. ed., 192 p., illus., \$1.95. Handy passport-size, full of useful up-to-date information for the traveler.

TREASURES BY THE MILLIONS: The Story of the Smithsonian Institution—Harry Edward Neal—*Messner*, 192 p., photographs, \$3.50. The story behind the collections of a great scientific institution, including the work of many scientists and specialists, told for young people.

TYPE SPECIMENS OF BIRDS IN THE UNITED STATES NATIONAL MUSEUM—Herbert G. Deignan—*U.S. National Mus. (GPO)*, 718 p., paper, \$2.75. The result of 15 years of study of the types of birds preserved in the national collection.

THE UNITY OF THE UNIVERSE—D. W. Sciama—*Doubleday*, 213 p., illus., diagrams by Joan Wedge, paper, 95¢. Cosmology for the layman.

WONDERS OF THE WORLD BETWEEN THE TIDES—Norman Hammond Wakeman—*Dodd*, 63 p., photographs by author, \$2.95. Seashore biology for young and old.

YOUR GARDEN IN THE SOUTH—Hamilton Mason—*Van Nostrand*, 358 p., photographs, \$7.75. Comprehensive garden guide to what you can and cannot grow in different sections of Florida, Alabama, Georgia, Louisiana, Mississippi and eastern Texas.

• Science News Letter, 79:284 May 6, 1961

Questions

MEDICINE—How does a new gun device detect cancer? p. 281.

OCEANOGRAPHY—How is electricity generated in an organic fuel cell? p. 275.

Photographs: Cover, Convair Division of General Dynamics Corporation; p. 275 and 278, U. S. Geological Survey; p. 277, Firewell Company, Inc.; p. 279, U. S. Navy; p. 282, Science Service; p. 288, Eastman Chemical Products, Inc.

ENGINEERING

National Academy of Engineering Discussed

► A NATIONAL ACADEMY of Engineering is being planned by the leading professional engineering organizations of the nation acting through the Engineers Joint Council in New York.

This new top-level organization with limited membership would either have a separate existence paralleling the National Academy of Sciences, now almost a century old as the most elite such body in the nation, or it would be established as a part of the existing academy with a name change to the National Academy of Sciences and Engineering.

The proposed organization is being discussed by a committee of the Engineers Joint Council an organization of national and regional engineer societies that includes 250,000 engineers in the nation.

• Science News Letter, 79:285 May 6, 1961

ROCKETS AND MISSILES

Weightless Tests Of Rocket Fuels

See Front Cover

► TWO ENGINEERS test a capsule of liquid hydrogen under weightless conditions in an Air Force zero-gravity flight.

The test is part of a study to learn how liquid rocket fuels would behave in outer space, being made for the National Aeronautics and Space Administration by Convair Division of General Dynamics Corporation, San Diego, Calif.

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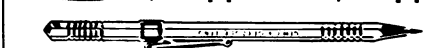
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