

# Books of the Week

For the editorial information of our readers, books received for review since last week's issue 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. Request free publications direct from publisher, not from Science Service.

**AERODYNAMICS OF PROPULSION**—Dietrich Küchemann and Johanna Weber—*McGraw-Hill*, 340 p., illus., \$9.00 Including jets, ram-jets and turbo-jets.

**ANHYDROUS AMMONIA AND AQUA AMMONIA CHEMICAL SAFETY CHART**—U. S. Bureau of Labor Standards, wall chart, illus., paper, free upon request to publisher, Washington 25, D. C. Description and directions for safe handling, storage and shipment.

**APPLICATION OF OPTICAL INTERFERENCE TO THE STUDY OF RESIDUAL SURFACE STRESSES**—Harold R. Letner—*Mellon Institute*, 13 p., illus., paper, free upon request direct to publisher, 4400 Fifth Ave., Pittsburgh, Pa.

**ATLAS OF MEDICAL MYCOLOGY**—Emma Sadler Moss and Albert Louis McQuown—*Williams and Wilkins*, 245 p., illus., \$8.00. To aid in the diagnosis of fungus disease.

**BESIDE DIAGNOSIS**—Charles Seward—*Livingstone (Williams and Wilkins)*, 2d ed., 380 p., illus., \$3.50. Designed to give medical students and doctors a method of systematic approach to diagnosis from the symptoms presented by the patient.

**BIBLIOGRAPHY OF BOOKS FOR CHILDREN**—Leland B. Jacobs, Compiler—*Association for Childhood Education International*, 103 p., paper, \$1.00. Listing more than a thousand titles including old favorites and the best books for children published through May, 1952. Books are classified according to content.

**CAPTIVE SURGEON: Adventures and Misadventures of a Doctor in Red China**—Ernest M. Lippa—*Morrow*, 280 p., \$4.00. The experiences of an Austrian physician who acted as head surgeon at the Catholic hospital in Kaifeng, and later went to Luan in Communist territory.

**COLLEGIATE EDUCATION FOR NURSING**—Margaret Bridgman—*Russell Sage Foundation*, 205 p., \$2.50. The Russell Sage Foundation instituted in 1949 a temporary counseling service available to colleges and universities that wished to improve schools of nursing. Dr. Bridgman gave the service.

**CYTOCHEMISTRY: A Critical Approach**—J. F. Danielli—*Wiley*, 139 p., illus., \$4.00. The author explains that this is not a textbook (cytochemistry is so undeveloped that a textbook would be premature) but it is a record of his own experiments and those of his associates.

**EDUCATION IN SWEDEN**—Alina M. Lindegren—*Govt. Printing Office*, Office of Education Bulletin 1952 No. 17, 90 p., illus., paper, 30 cents. The Swedish school reform act of 1950 provided for a 9-year compulsory comprehensive school. This study will enable American administrators to evaluate the education of pupils from Sweden.

**ENCYCLOPEDIA OF CHEMICAL REACTIONS** Volume V—C. A. Jacobson with assistance of Clifford A. Hampel and Elbert C. Weaver, Eds.—*Reinhold*, 787 p., \$15.00. The senior editor unfortunately died before he could complete this multi-volume series, but the publication of the alphabetical list of the elements is being continued under the same editorial policy. This volume includes nickel to ruthenium.

**THE FELLOWSHIP SYSTEM OF SCIENTIFIC RESEARCH AT MELLON INSTITUTE**—George D. Beal—*Mellon Institute*, 12 p., paper, free upon request direct to publisher, 4400 Fifth Avenue, Pittsburgh, Pa.

**HARMONICS, SIDEBANDS, AND TRANSIENTS IN COMMUNICATION ENGINEERING: As Studied by the Fourier and Laplace Analyses**—C. Louis Cuccia—*McGraw-Hill*, 465 p., illus., \$9.00. A textbook intended to give communications engineers an understanding of the mathematics they need for their profession.

**HUMAN FACTORS IN AIR TRANSPORTATION: Occupational Health and Safety**—Ross A. McFarland—*McGraw-Hill*, 830 p., illus., \$13.00. Safety of air travel depends on the health of the pilot as well as on the design and construction of the plane.

**HYDROCHLORIC ACID, AQUEOUS AND HYDROGEN CHLORIDE, ANHYDROUS CHEMICAL SAFETY CHART**—U. S. Bureau of Labor Standards, wall chart, illus., paper, free upon request direct to publisher, Washington 25, D. C. Description, shipping containers, storage, safe practices and handling instructions, including first aid.

**INNOVATION: The Basis of Cultural Change**—H. G. Barnett—*McGraw-Hill*, 462 p., \$6.50. There is, the author believes, no innovative "faculty" nor is there any specifically creative instrument possessed by some men and not by others. A new idea is the result of a particular conjunction of psychological processes. Based on research with five ethnic groups.

**INSECT, FUNGUS AND WEED CONTROL**—E. R. de Ong—*Chemical Publishing Co.*, 400 p., illus., \$10.00. Recommendations of recognized authorities, and data on important research still in experimental stage.

**MACHINES AT WORK**—Mary Elting—*Garden City Books*, 93 p., illus., \$1.50. For the small boy and his father who love to watch the crane and bulldozer at work.

**MAPS AND MAP-MAKERS**—R. V. Tooley—*Crown*, 2d ed., 140 p., illus., \$7.50. The history of map-making beginning with the map drawn by a Babylonian cartographer on clay in the fifth century B.C.

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**NEW TEETH FOR OLD**—Victor H. Sears—*Mosby*, 2d ed., 110 p., illus., \$3.00. A book for dentists and their patients on how to prevent the need for false teeth and, after you have them, how to wear the dentures with the greatest comfort.

**PHARMACOLOGY AND TOXICOLOGY OF URANIUM COMPOUNDS: Chronic Inhalation and Other Studies Parts 3 and 4**—Carl Voegtlin and Harold C. Hodge, Eds.—*McGraw-Hill*, 2 vols., 2466 p., illus., \$18.00. The completion of these studies has made possible the well-supported recommendation of air concentrations of soluble and insoluble uranium dusts that men may breathe safely. Provisionally, this highly toxic metal is not easily absorbed.

**PHOTOGRAPHY WORKBOOK**—Victor C. Smith—*Lippincott*, 84 p., illus., paper, \$1.20. Graded lessons for beginners.

**QUALITATIVE ANALYSIS AND ANALYTICAL CHEMICAL SEPARATIONS**—Philip W. West, Maurice M. Vick and Arthur L. LeRosen—*Macmillan*, 223 p., \$3.75. A beginning text prepared from a new non-sulfide approach.

**REAR LIGHTS OF MOTOR VEHICLES AND PEDAL CYCLES**—R. L. Moore—*Her Majesty's Stationery Office*, Road Research Technical Paper No. 25, 21 p., illus., paper, 40 cents. The accuracy with which the distance of a vehicle at night could be judged was found to depend on the intensity and the height of the rear lights. Some 3,400 casualties are caused each year by faulty lights.

**REPORT OF THE ROAD RESEARCH BOARD WITH THE REPORT OF THE DIRECTOR OF ROAD RESEARCH FOR THE YEAR 1951**—Department of Scientific and Industrial Research—*Her Majesty's Stationery Office*, 86 p., illus., paper, 90 cents. Road accidents cost the people of England more than one hundred million pounds.

**THE SECOND ANNUAL REPORT OF THE NATIONAL SCIENCE FOUNDATION, Fiscal Year 1952**—Alan T. Waterman, Director—*Govt. Printing Office*, 77 p., paper, 30 cents. Showing what the Foundation has accomplished despite inadequate budgets.

**THE SUN**—Herbert S. Zim—*Morrow*, 64 p., illus., \$2.00. Sunspots, eclipse and the part the sun plays in our everyday lives are explained for children.

**WHAT IS SCIENCE?**—Norman Campbell—*Dover*, 186 p., paper \$1.25, cloth \$2.50. A philosophical discussion of the nature of science, both "pure" and applied.

Science News Letter, March 7, 1953

## The Mathematics Magazine

bridges the gulf between ordinary interest in mathematics and research work.

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Address: **Mathematics Magazine Dpt. c**  
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# Questions

**CHEMISTRY**—Why is it important to understand the structure of proteins? p. 150.

• • •

**ELECTRONICS**—How can blood flow rate inside the body be measured without surgery? p. 149.

• • •

**MEDICINE**—Why is there no reason to worry about black market gamma globulin? p. 151.

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**NATURAL RESOURCES**—What damage is inflicted by phreatophytes? p. 150.

• • •

**PALEONTOLOGY**—Why are finds of fossilized remains of primates quite rare? p. 156.

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**PSYCHOLOGY**—What happens to heartbeat rate during anxiety periods? p. 152.

How could recorded messages be speeded up? p. 152.

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*Photographs: Cover, Fremont Davis; p. 147, U. S. Army; p. 149, U. S. Air Force; p. 151, Lockheed Aircraft Corp.; p. 160, Eastman Chemical Products, Inc.*

# Do You Know?

A hairpin weighs a little less than 1/100 ounce.

The wireworm, larval form of the click beetle, is one of the more destructive pests of potatoes.

Every minute, on the average, about 130 tons of finished steel products were shipped by the steel industry during 1952.

Optimum temperatures for the growth of decay-producing fungi range from 60 to 80 degrees Fahrenheit, but some fungi can develop at temperatures as low as 35 or as high as 120.



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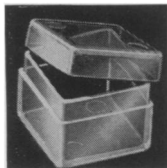
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