

# 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.

**APPLIED MATHEMATICS IN CHEMICAL ENGINEERING**—Harold S. Mickley, Thomas K. Sherwood and Charles E. Reed—*McGraw-Hill*, 2d ed., 413 p., illus., \$9.00. Purpose of this book is to consolidate the advanced methods of mathematics into a form applied readily by both the student and the professional engineer.

**THE CARE OF THE EXPECTANT MOTHER**—Josephine Barnes—*Philosophical Library*, 270 p., illus., \$7.50. By an English obstetrician and gynecologist.

**CARTOGRAPHY (MAP MAKING)**—Hubert A. Bauer—*Bellman Publishing Co.*, Vocational and Professional Monographs No. 60, 32 p., illus., paper, \$1.00. The U. S. Government is the largest producer of the greatest variety of maps anywhere in the world and so the largest employer of cartographers.

**THE CHALLENGE OF SOVIET EDUCATION**—George S. Counts—*McGraw-Hill*, 330 p., \$6.00. An American educator of Teachers College reviews the phenomenal growth of the Soviet education system where it is boasted that one person in every four is going to school and illiteracy has been reduced from 60% or 65% to perhaps 5% or 10%, and where education is used as a political weapon.

**COTTONTAIL RABBIT**—Elizabeth Schwartz and Charles Schwartz—*Holiday House*, 46 p., illustrated with drawings by Charles Schwartz, \$2.00. Facts for children about these endearing little animals.

**COUNSELING AND PSYCHOTHERAPY WITH THE MENTALLY RETARDED: A Book of Readings**—Chalmers L. Stacey and Manfred F. DeMartino, Eds. with a foreword by Seymour B. Sarason—*The Free Press* and *The Falcon's Wing Press*, 478 p., \$7.50. In addition to the discussion of

psychotherapy for the mentally retarded, one section of the book is devoted to counseling of parents.

**DERMATOLOGY**—Donald M. Pillsbury, Walter B. Shelley and Albert M. Kligman—*Saunders*, 1331 p., illus., \$20.00. For the benefit of the clinical student who has had no opportunity to learn how the skin functions normally, the chief facts regarding normal skin are summarized in several chapters. Discussion of diagnosis is fairly extensive.

**THE EFFECT OF EXPOSURE TO THE ATOMIC BOMBS ON PREGNANCY TERMINATION IN HIROSHIMA AND NAGASAKI**—J. V. Neel and W. J. Schull and others—*National Academy of Sciences—National Research Council*, Publication No. 461, Atomic Bomb Casualty Commission, 241 p., illus., \$2.00. Exposure to irradiation of all types, the authors conclude, should be minimized until we know more about what the effects are.

**GENERAL COLLEGE CHEMISTRY**—Jesse Hermon Wood and Charles William Keenan—*Harper*, 689 p., illus., \$6.50. Intended as a book that can be read and understood by college freshmen of average preparation and intelligence. The authors believe that this study should be a liberal arts course that permits later specialization in any field.

**THE HANDY HOME MEDICAL ADVISER: And Concise Medical Encyclopedia**—Morris Fishbein—*Hanover House*, 394 p., illus., \$2.95. Explaining the nature of, and what to do about, various ills, and including an alphabetical list of symptoms and diseases along with their definitions.

**A HISTORY OF TECHNOLOGY: Volume II, The Mediterranean Civilizations and the Middle Ages c. 700 B.C. to c. A.D. 1500**—Charles Singer, E. J. Holmyard, A. R. Hall and Trevor I. Williams—*Oxford University Press*, 802 p., 44 plates, illus., \$26.90. Tracing the history of technology for 2,000 years as civilization moved westward.

**INTRODUCING ASTRONOMY**—J. B. Sidgwick—*Macmillan*, 259 p., illus., \$3.50. To start the amateur on an interesting and worthwhile hobby.

**IRONWORKS ON THE SAUGUS: The Lynn and Braintree Ventures of the Company of Undertakers of the Ironworks in New England**—E. N. Hartley—*University of Oklahoma Press*, 328 p., illus., \$4.50. This book is an outgrowth of work on the Saugus Ironworks Restoration where an iron-making plant was constructed in the early 1640's.

**JOINT AND CRACK SEALING**—Fred E. Sternberg, Warren M. Creamer and A. A. Anderson—*Highway Research Board*, Bulletin 138, 24 p., illus., paper, 60 cents. Concerned with a major problem in the maintenance of concrete highway pavement.

**LABORATORY ENGINEERING**—Arnold Weissberger, Ed.—*Interscience Publishers*, Technique of Organic Chemistry Volume III, Part II, 2d ed., 391 p., illus., \$8.00. This series is devoted to comprehensive presentation of the techniques used in the organic laboratory.

**THE LAW OF LITERARY PROPERTY**—Philip Wittenberg—*World Publishing Co.*, 284 p., \$5.00. A book of interest to writers by a legal authority on copyright and related subjects.

**THE LIFE AND DEATH OF CELLS**—Joseph G.

Hoffman—*Hanover House*, 301 p., \$4.50. Describing the living process as it is seen in the microscopic realm of tissue cells and telling about the nature of cancer.

**LOGIC WITHOUT METAPHYSICS: And Other Essays in the Philosophy of Science**—Ernest Nagel—*The Free Press*, 433 p., \$6.00. A collection of writings bearing on the philosophy of science.

**THE PHARMACEUTICAL INDUSTRY**—John O'Neill Closs—*Bellman Publishing Co.* Vocational and Professional Monographs No. 79, new rev. ed., 28 p., illus., paper, \$1.00. Average employment in this industry in 1947, last census year, was 65,552 persons.

**ROAD ROUGHNESS AND SLIPPERINESS: Some Factors and Test Methods**—Gale Ahlborn and others—*Highway Research Board*, Bulletin 139, 84 p., illus., paper, \$1.60. Reporting tests of skidding on various types of wet pavement.

**SNAILS FROM CALIFORNIA CAVES**—Allyn G. Smith—*California Academy of Sciences*, Proceedings, Fourth Series, Vol. XXIX, No. 2, 26 p., illus., paper, 75 cents. So far as is known there are no true cave mollusks on the west coast of North America. Those described here may have been washed into the caves in which they were found through crevices.

**TECHNOLOGICAL ADVANCES AND SKILLED MANPOWER: Implications for Trade and Industrial Education**—An Annotated Selected Bibliography—Howard K. Hogan—*Govt. Printing Office*, Office of Education, 67 p., paper, 45 cents. For use by educators and teacher trainers.

**UNITED STATES EARTHQUAKES 1954**—Leonard M. Murphy and William K. Cloud—*Govt. Printing Office*, Coast and Geodetic Survey Serial No. 793, 110 p., illus., paper, 55 cents. A summary of earthquake activity during the year 1954.

**WATER FOR INDUSTRY: A Symposium Presented on December 29, 1953 at the Boston Meeting of the American Association for the Advancement of Science**—Jack B. Graham and Meredith F. Burrill, Eds.—*American Association for the Advancement of Science*, Publication No. 45, 131 p., illus., \$3.75. Of all natural resources, water is used in greater amounts by industry than any other material.

**WILD FLOWERS OF YELLOWSTONE AND GRAND TETON NATIONAL PARKS**—Richard J. Shaw—*Museum Association of Yellowstone Park*, 30 p., illus., paper, \$1.00. Brief descriptions and gorgeous color photographs to help you identify the flowers you see and smell, but do not pick, in the parks.

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## ENGINEERING

### Average 1956 Car Has 15 Pounds of Plastics

► THE AVERAGE CAR of 1956 has 15 pounds of plastic material, distributed from the steering wheel to the tail lights, H. A. Hoppens of Allied Chemical and Dye Corporation reported to the Society of Automotive Engineers.

Even if the figure were only 10 pounds, he said, it represents a total of 58,000,000 pounds of plastics, not including paint, which were used for automobiles in 1956. Mr. Hoppens pointed out that more than 200 separate parts made of some plastics are used in the average automobile.

His report was made at the SAE National Passenger Car, Body and Materials meeting in Detroit.

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