

# 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. books in print, send a remittance to cover retail price (postage will be paid in U. S.) to Book Department, Science Service, 1719 N Street, N.W., Washington 6, D. C. Request free publications direct from publisher, not from Science Service.

**AERONAUTICS AT THE MID-CENTURY**—Jerome C. Hunsaker—*Yale University Press*, 116 p., illus., \$3.00. Aeronautics, the author points out, offers new means to make war at a distance, but by this very threat, it stimulates interest in peaceful settlement of differences.

**THE AMERINDIAN: American Indian Review**, Vol. 1, No. 1—Marion E. Gridley—*Gridley*, 4 p., illus., paper, \$2.50 per year. A new publication devoted to news of the American Indians and material advocating Indian interests.

**ANNUAL REPORT OF THE BOARD OF REGENTS OF THE SMITHSONIAN INSTITUTION 1951**—A. Wetmore, Secretary—*Govt. Printing Office*, 449 p., illus., \$3.00. The General Appendix contains a selection of research reports on a wide variety of subjects from stormy weather on the sun to the history of artificial lighting in the United States and the development of the half-tone screen.

**ARE THESE OUR DOCTORS?**—Evelyn Barkins—*Fell*, 192 p., \$2.50. Telling how your medical adviser appears in the intimacy of his home.

**CHAMPION CAMPAIGNER FRANKLIN D. ROOSEVELT**—Harold F. Gosnell—*Macmillan*, 235 p., illus., \$3.50. The author believes that the affection and serenity with which Roosevelt was surrounded in early childhood contributed to his great confidence and liking for people that were the secret of his charm as a campaigner.

**CONTRIBUTIONS OF BROWNING RESEARCH TO RATION ITEM STABILITY**—Jack H. Mitchell, Jr. and Martin S. Peterson, Eds.—*Research and Development Associates*, 56 p., paper, \$1.00.

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Papers reporting research on deterioration of dehydrated foods.

**DICTIONARY OF CIVIL DEFENCE** — Carlton Wallace, Ed. — *Philosophical Library*, 160 p., illus., \$2.75. A book of British origin telling first-aid workers what to do about various injuries, arranged alphabetically.

**ECONOMIC USE OF FORAGES IN LIVESTOCK PRODUCTION ON CORN BELT FARMS**—Russell O. Olson and Earl O. Heady—*Govt. Printing Office*, USDA Circular No. 905, 44 p., paper, 10 cents. Forage crops also retard erosion and improve the soil.

**A FIELD GUIDE TO SHELLS OF THE PACIFIC COAST AND HAWAII**—Percy A. Morris—*Houghton Mifflin*, 220 p., illus., \$3.75. Beautiful illustrations, many in color, and clear, non-technical descriptions will aid the amateur to identify his finds.

**GALILEO: First Observer of Marvelous Things**—Elma Ehrlich Levinger—*Messner*, 180 p., \$2.75. A biography of the great scientist written with imagination.

**GLANDS, SEX, AND PERSONALITY**—Herman H. Rubin—*Funk*, 205 p., \$2.95. A non-technical book about glands.

**THE HISTORY OF ASTRONOMY**—Georgio Abetti, translated from the Italian by Betty Burr Abetti—*Schuman*, 338 p., illus., \$6.00. In this work by an Italian astronomer, the emphasis is, understandably, on the personalities and achievements of his countrymen.

**HOW CHILDREN LEARN TO READ**—Helen K. Mackintosh—*Govt. Printing Office*, Office of Education, Bulletin 1952, No. 7, 16 p., illus., paper, 15 cents. Telling about the whole complex process from the time when the baby takes a book and makes believe he is reading like Daddy to the time when he uses his own library card.

**THE IMMACULATE FOREST: An Account of an Expedition to Unexplored Territories Between the Andes and the Amazon**—W. R. Philipson—*Philosophical Library*, 223 p., illus., \$4.50. A fascinating account of the experiences that awaited some naturalists when they explored a part of the jungle where men had never been before.

**LIPID METABOLISM: A Symposium Held at the London School of Hygiene and Tropical Medicine on 16 February 1952**—R. T. Williams, Ed.—*Cambridge University Press*, 101 p., paper, \$2.75. It has long been known that the pig produces fat from carbohydrate, but we still do not know exactly how.

**MODERN TRENDS IN INFANT NUTRITION AND FEEDING**—Jonathan T. Lanman with foreword by L. Emmett Holt—*Sugar Research Foundation*, 96 p., paper, free upon request to publisher, 52 Wall Street, New York 5, N. Y. Information on the nutritional needs of babies and the composition of common infant foods.

NEW RESOURCES BRING NEW OPPORTUNITIES:

Seventh Quarterly Report to the President—Director of Defense Mobilization—*Govt. Printing Office*, 44 p., illus., paper, 30 cents. Reporting "substantial progress" in building America's strength.

**PERSONALITY IN THE MAKING: The Fact-Finding Report of the Midcentury White House Conference on Children and Youth**—Helen Leland Witmer and Ruth Kotinsky, Eds.—*Harper*, 454 p., \$4.50. Stressing the importance of assuring the infant a feeling of trust in his world and, later, confidence in his own abilities.

**PHYSIOLOGY OF THE EYE: Volume Two, Vision** Arthur Linksz—*Grune & Stratton*, 869 p., illus., \$19.00. In this book, preliminary work on which was done while the author was practicing ophthalmology in Budapest, Hungary, emphasis is on how the sense of vision conveys information to the mind.

**POSTURAL DEVELOPMENT OF INFANT CHIMPANZEES: A Comparative and Normative Study Based on the Gesell Behavior Examination**—Austin H. Riesen and Elaine F. Kinder—*Yale University Press*, 204 p., illus., \$5.00. The development of baby chimpanzees as tested by the Gesell-Thompson baby tests is compared with that of human infants and monkeys. Comparable stages are reached by the chimp about one-third earlier than by babies. Implications concerning the theory of evolution are discussed.

**PROCEEDINGS OF THE PAN-AFRICAN CONGRESS ON PREHISTORY, 1947**—L. S. B. Leakey and Sonia Cole, Eds.—*Philosophical Library*, 239 p., illus., \$8.75. Papers presented at a meeting which brought together specialists in prehistory, geology and paleontology.

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**RADIO SPECTRUM CONSERVATION:** A Program of Conservation Based on Present Uses and Future Needs—Joint Technical Advisory Committee, IRE - RTMA—*McGraw-Hill*, 221 p., illus., \$5.00. A group of engineers, who have developed this ideal allocation plan for space on the air, present it in non-technical language for non-professional readers.

SCIENCE NEWS 25—A. W. Haslett, Ed.—*Penguin*, 128 p., illus., paper, 50 cents. Another of these interesting British collections of articles on various scientific subjects.

**SEMIMICRO QUALITATIVE ANALYSIS**—Paul Arthur and Otto M. Smith—*McGraw-Hill*, 3d ed., 285 p., \$4.00. The first edition of this textbook was enlarged and revised to incorporate ideas received in response to questionnaires sent to teachers. It now contains much more theory.

**WHAT WE CAN DO ABOUT THE DRUG MENACE**—Albert Deutsch—*Public Affairs Committee*, 32 p., illus., paper, 25 cents. One method of attack on the narcotics problem is to clean up our slums; another is to tighten the controls on sleeping pills.

Science News Letter, October 25, 1952

#### TECHNOLOGY

### Industrial Video Holds Great Future Promise

► THE UNBLINKING eye of television is being used in industry to cut costs, to reduce accidents and to lower capital investment. Under certain conditions, it also provides more information than can be gained by direct observation.

Speaking to the American Institute of Engineers meeting in New Orleans, G. Holmes Wilson of the Diamond Power Specialty Corp., said the Utiliscope, the heart of industry's video system, now is used in 200 industrial applications. New jobs are being found for it so fast that it seems to have an even greater potential than commercial television, he said.

The Utiliscope is less sensitive and less complicated than commercial television apparatus. Known as a "long-life, cold cathode tube," it needs no filament or electron gun.

Although industrial television still is in its infancy, Mr. Wilson predicted that it soon would be used by guards to watch remotely located plant gates, to identify employees, and perhaps even to regulate vehicular traffic.

L. M. Exley, a Long Island, N. Y., Light Co. engineer, reported that his company is using television to watch the furnace in its Port Jefferson steam plant. Placed in an opening at the top of two pulverized-coal and oil-fired furnaces, the camera shows furnace changes that occur during different stages of fuel combustion. The camera lenses are protected by water- and air-cooled glass.

In addition to yielding more information about furnaces in operation, the video system also has helped the company train men who have little opportunity to see what happens in a lighted furnace, he said.

Science News Letter, October 25, 1952

#### MEDICINE

### You Can Catch Measles in 10 Seconds

► YOU OR one of your children could "catch" measles within 10 seconds, if conditions were right. The conditions would be such that a susceptible person was in close proximity to a measles patient during the stages of the disease when it is most contagious. These stages are just before and immediately after the rash appears.

The time it takes to be infected with measles is given in the *Journal of the American Medical Association* (Oct. 11) in answer to a question from a doctor. The doctor also asked whether there was any reason not to expose a healthy child to measles, if the child had been given gamma globulin.

This material from blood contains the anti-measles substances built up during an attack of the disease. Since most grown-ups in the United States have had measles, the blood now being collected through the National Blood Program has plenty of the anti-measles substances. Scientists have found a way of separating this from the rest of the blood and doctors are using it to protect children.

Gamma globulin modifies an attack of the disease, making it less severe and for this reason it is given to small children, or those who have just recovered from some other sickness and would be less able to stand an attack of measles.

Even so, the medical journal states, it is not advisable to expose a child to measles. Very rarely, serious complications develop with "mild measles."

Among complications of measles are the ear infection called otitis media, mastoid infection, pneumonia, bronchitis and occasionally encephalitis.

Science News Letter, October 25, 1952

#### TECHNOLOGY

### Plastic Die Stamps Out Steel Truck Paneling

► SEVERAL HUNDRED steel cowl panels for Dodge trucks have been stamped out in Detroit by a plastic die attached to the powerful jaws of a standard 100-ton press, the Chrysler Corporation has announced.

Engineers adapted the plastic die principle to the automotive business after it had been successfully used in the aircraft industry to stamp out aluminum and stainless steel airplane parts.

Contrasted to the die it replaces, the plastic die weighs 1,500 pounds instead of 6,000. It took less than three weeks to build, whereas the usual high-alloy steel die requires about 15 weeks.

Made of a thermosetting liquid phenolic plastic, the die was formed from a plastic mold. Cold liquid plastic was poured into the mold and allowed to set. Then it was coated with a thickness of wax equal to the thickness of the metal to be stamped, and a mating die was made from the coated original.

Science News Letter, October 25, 1952

### INSTANT! PINPOINT! CONTROLLED! HEAT

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