

# 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.

**ANTHROPOLOGY**—J. E. Manchip White—*Philosophical Library*, 191 p., illus., \$2.75. Introducing the general reader to various branches of the science from physical anthropology to applied anthropology, including the government of primitive peoples.

**ANTIBIOTISM AND IMMUNITY MEDICINE OF TOMORROW**—Alexander Komis—*John Wright and Sons (Williams & Wilkins)*, 72 p., paper, \$2.75. Medical science has not yet, the author states, exploited to the utmost the possibilities of immunization.

**BIOCHEMISTRY AND PHYSIOLOGY OF PROTOZOA: Volume II**—S. H. Hutner and Andre Lwoff—*Academic*, 388 p., illus., \$9.00. The editors look forward to a greatly widened use of protozoa as biochemical tools.

**CIVIL AIRCRAFT ACCIDENT: Report of the Court of Inquiry Into the Accidents to Comet G—ALYP on 10th January, 1954 and Comet G—ALYY on 8th April, 1954—Her Majesty's Stationery Office (British Information Services)**, 48 p., illus., paper, \$1.80. Official report of a difficult piece of aviation detection work.

**THE COLLOID CHEMISTRY OF SILICA AND SILICATES**—Ralph K. Iler—*Cornell University Press*, 324 p., illus., \$5.50. Information from the fields of geology, mineralogy, agronomy, and zoology, as well as from chemistry.

**DOWN TO EARTH: A Practical Guide to Archaeology**—Robin Place—*Philosophical Library*, 173 p., illus., \$7.50. How Britain's prehistoric people lived is here pieced together from archaeological finds.

**FUNDAMENTALS OF RADIOBIOLOGY**—Z. M. Bacq and Peter Alexander—*Academic*, 389 p., illus., \$6.50. Although much remains to be learned in this field, it has already been found that an incredibly small amount of energy can change the life of a cell, a tissue or even an entire organism.

**HERE COME THE DEER!**—Alice E. Goudey—*Scribner's*, 94 p., illus., \$2.25. A book for little children about deer, elk and caribou families.

**INTEGERS AND THEORY OF NUMBERS**—Abraham A. Fraenkel—*Scripta Mathematica*, Scripta Mathematica Studies Number Five, 102 p., \$2.75. Developed from talks in an adult education program, this book is intended for gifted high school students, college freshmen and laymen.

**LABORATORY MANUAL OF BIOCHEMISTRY**—Benjamin Harrow and others—*Saunders*, 4th ed., 164 p., illus., paper, \$3.00. New experiments

added include one on filter paper chromatography.

**LIST OF NORTH AMERICAN RECENT MAMMALS**—Gerrit S. Miller Jr. and Remington Kellogg—*Govt. Printing Office*, U. S. National Museum Bulletin 205, 954 p., paper, \$3.50. Summarizing results of taxonomic studies up to January 1, 1953, and indicating the forms represented in the collections of the Museum which include 263,214 specimens.

**MAKE IT WITH ALUMINUM**—Frank K. Coffee, Ed.—*Arco*, 144 p., illus., \$2.00. To make the useful articles for the home described here, you need only the ordinary tools found on practically every work bench.

**MATERNAL EMOTIONS: A Study of Women's Feelings Toward Menstruation, Pregnancy, Childbirth, Breast Feeding, Infant Care, and Other Aspects of Their Femininity**—Niles Newton—*Hoeber*, a Psychosomatic Medicine Monograph, 140 p., \$3.00. The author, a woman, concludes that these feelings are important and are related to many other aspects of a woman's life.

**MATHEMATICS FOR THE CHEMIST: Mathematical Analysis for Chemists, Physicists and Chemical Engineers**—G. J. Kynch—*Academic*, 356 p., illus., \$4.80. For chemistry students and older chemists who want to become acquainted with the new types of mathematics now in vogue.

**MEN, MICROSCOPES, AND LIVING THINGS**—Katherine B. Shippen—*Viking*, 192 p., illus., \$3.00. Describing the lives and works of great biologists.

**MOLECULAR VIBRATIONS: The Theory of Infrared and Raman Vibrational Spectra**—E. Bright Wilson Jr., J. C. Decius and Paul C. Cross—*McGraw-Hill*, 388 p., illus., \$8.50.

**MULTIPLE SCLEROSIS**—Douglas McAlpine, Nigel D. Compston and Charles E. Lumsden—*Livingstone (Williams & Wilkins)*, 304 p., illus., \$7.00. Although the symptoms and morbid anatomy of this disease are well known from classical writings, we are still ignorant of its cause, and treatment remains largely empirical.

**NATIONAL PLUMBING CODE: Minimum Requirements for Plumbing**—Sponsored by American Public Health Association and American Society of Mechanical Engineers—*American Society of Mechanical Engineers*, 174 p., illus., paper, \$3.50.

**PHYSICAL EDUCATION FOR CHILDREN: A Handbook of Objective Activities**—D. Cyril Joynson—*Philosophical Library*, 215 p., illus., \$4.75. Intended especially for teachers of children aged from five to 11 years.

**PHYSICS OF THE PLANET MARS: An Introduction to Areophysic**—Gerard de Vaucouleurs—*Macmillan*, 365 p., illus., \$10.00. Here is presented information about this curiosity-arousing planet obtained by physical means.

**A POCKET CHART OF ORNAMENTAL AND GEM STONES**—Sir James Walton—*Pitman*, 73 p., \$2.75. Stones are listed in tabular form according to color and refractive index.

**THE PREVALENCE OF PEOPLE**—Marston Bates—*Scribner's*, 283 p., illus., \$3.95. An answer to the question: "Might not public health in solving problems of death by disease be creating even more serious problems for the future of death by starvation?"

**SOUND INSULATION OF WALL AND FLOOR CON-**

**STRUCTIONS**—Staff, Sound Section—*Govt. Printing Office*, National Bureau of Standards Building Materials and Structures Report 144, 66 p., illus., paper, 40 cents.

**SPRING LAKE ARCHEOLOGY—POINT PROFILES**—Louis H. Powell—*The Science Museum*, Science Bulletin Number 3, Part 1, 5 p., mimeographed, illus., paper, \$1.00. The first of a series of studies of the archaeology of the Mississippi River shore line at Spring Lake, Minn.

**THE STORY OF FAO**—Gove Hambidge—*Van Nostrand*, 303 p., illus., \$6.50. The kind of international teamwork described here is "creating a new breed of explorers on the frontiers of social advance, one tough-minded and patient enough to stand persistent frustration."

**TECHNIQUES IN CLINICAL CHEMISTRY: A Handbook for Medical Laboratory Technicians**—Frederick N. Bullock—*John Wright and Sons (Williams & Wilkins)*, 171 p., illus., \$4.00. Intended to supplement rather than replace more exhaustive manuals.

Science News Letter, April 2, 1955

## ENGINEERING

### Industrial Wastes Now Make Feed and Fertilizer

► **INDUSTRIAL WASTES** that have been polluting streams and air are now being used to make such products as fertilizers, animal feeds and DDT.

C. Fred Gurnham of Michigan State College told the meeting of the American Institute of Chemical Engineers in New York that these products could be made through relatively simple alteration of manufacturing procedures. The products in many cases more than pays for the salvage cost.

Wastes from the steel, coal, metal finishing, paper and food industries can be used to make animal feeds and fertilizers.

In washing coal, for example, he said, the rinsing water used to be discharged in the stream. However, the residue was found to have such a high market value that not only is it being saved, but sludge deposits from earlier pollution are being dredged from stream bottoms.

How the common industrial waste chemical, hydrochloric acid, could be used to make DDT was reported by Dr. A. J. Teller of Fenn College in Cleveland.

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## INVENTION

### Lunch Pail Is Electrically Heated

► **HOT LUNCHESES** for the working man are provided by an electrically heated lunch pail.

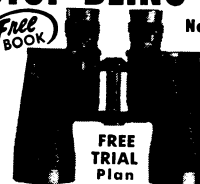
Invented by Frank H. Lott of Lebanon, Ore., and awarded patent No. 2,704,319, the lunch pail hot shop is designed so that some of its contents can be heated on a top tray of the pail, while other foods in the lower compartment remain cool.

The top tray is a hot plate which can be plugged into an outlet. The pail itself is a conventional lunch pail and is also designed to be used for that purpose only by removing the electrically heatable tray.

Science News Letter, April 2, 1955

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