

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.

CHEMICAL ENGINEERING OPERATIONS: An Introduction to the Study of Chemical Plant—Frank Rumford—*Chemical Publishing Co.*, 376 p., illus., \$7.50. A textbook describing the processes which are peculiar to chemical plant practice.

CHILDREN WITH IMPAIRED HEARING: An Audiologic Perspective—William G. Hardy—*Govt. Printing Office*, 22 p., 15 cents. A full program to deal with the needs of children with impaired hearing involves a number of steps here discussed.

EDUCATORS GUIDE TO FREE FILMS—Mary Foley Horkheimer and John W. Diffor, Ed.—*A. P. Horkheimer*, 12th ed., 508 p., paper, \$6.00. Covering a wide range of subject matter, this book lists 2,332 titles of which 538 are new in this edition.

EMOTIONAL PROBLEMS ASSOCIATED WITH HANDICAPPING CONDITIONS IN CHILDREN—Children's Bureau—*Govt. Printing Office*, 19 p., paper, 20 cents. Regardless of the degree of the child's handicap, the attitude of his family and of the community to his handicap is of great importance in the child's adjustment.

FERNSEHTECHNIK—F. Kirschstein and G. Krawinkel—*Hirsel*, Stuttgart, 288 p., illus., DM 25.

GMELINS HANDBUCH DER ANORGANISCHEN CHEMIE—Herausgegeben Vom Gmelin—*Verlag Chemie* (Walter J. Johnson), 8th ed., illus., paper, System-Number 3, Part 2, Sauerstoff, 218 p., \$15.48; System-Number 27, Part A 4, Magnesium, 336 p., \$23.81; System-Number 17, Arsen, 475 p., \$33.33; System-Number 41, Titan, 481 p., \$27.20.

SAFETY ENGINEERING

Farm Accident Season

➤FARMING IS a dangerous occupation, with harvest time perhaps the worst farm accident season. City dwellers vacationing or working on farms during this period, as well as farmers and their families, should be on special guard to avoid the dangerous and sometimes fatal accidents that may come when grain harvesting machinery, with its high-speed cutting mechanism, shafting, chains and gears, is operated in "the rush of harvest."

It is a season when haste is often emphasized without necessary caution, specialists of the Agricultural Extension Service, West Virginia University, warn.

The first step for safe operation of harvesting machinery is to put it into good condition before the harvest begins. This means that seats, controls, steps, and other similar features of the machine should be in good repair. Shields or other safety guards must be in place before a machine

LABORATORY STUDIES IN COLLEGE CHEMISTRY—Joseph A. Babor and Alexander Lehrman—*Crowell*, 227 p., illus., paper, \$2.50. Designed for the freshman course level, the manual contains 72 experiments with related problems and questions.

LANDS BEYOND—L. Sprague de Camp and Willy Ley—*Rinehart*, 329 p., \$4.75. Beginning with Plato's Atlantis, the authors re-create the imaginary worlds, the geographical fantasies and myths which have always intrigued man.

THE MEASUREMENT AND CONTROL OF TEMPERATURES IN INDUSTRY—R. Royds—*Chemical Publishing Co.*, 260 p., illus., \$5.00. New and important developments in this field necessitated the revision of this book, originally published under the title, *THE MEASUREMENT OF STEADY AND FLUCTUATING TEMPERATURES*.

PRINCIPLES OF AGRICULTURE—W. R. Williams, Translated from the Russian by G. V. Jacks—*Chemical Publishing Co.*, 156 p., illus., \$3.75. Setting forth the theories of Lysenko, which have become dogma in the U.S.S.R.

SERVICES FOR CHILDREN: How Title V of the Social Security Act Benefits Children—*U. S. Children's Bureau*, 8 p., free upon request to publisher, Washington 25, D. C. For the fiscal year ending June 30, 1952, \$12,524,100 was appropriated by Congress to aid the States in their maternal and child health services.

STANDARD VALUES IN BLOOD—Errett C. Albritton, Ed.—*United States Air Force* (Office of Technical Services), A. F. Technical Report No. 6039, 199 p., illus., paper, \$5.25. A series of reports presenting in tabular form blood data for man and other vertebrates.

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is taken to the field.

The National Safety Council recommends these rules for harvest safety:

1. Always be alert—never take a chance.
2. Always stop all machinery before oiling, adjusting, or unclogging.
3. Avoid wearing floppy or ragged clothing.
4. Always operate tractors at a safe speed.
5. Start smoothly and slow down for turns and rough ground.
6. Avoid operations too close to the edge of ditches or embankments.
7. Small children are definitely out of place around harvesting machinery.
8. Avoid jumping off equipment before it has come to a full stop.
9. Remember to look both ways as you approach a highway and cross with care.
10. On a highway, obey the signs and rules of the road and don't forget to use headlights and taillights at night.

"The operator of the machine must be alert and observe the safety rules—never take a chance," the Extension specialists stress.

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INVENTION

Chemist Receives 22 U.S. Patents on Same Day

➤ONE MAN has received 22 patents from the government in one week. This was an unusually high number, but the Patent Office was unable to determine whether it is a record.

The prolific inventor is Melvin De Groote, University City, Mo., a chemist with the Petrolite Corporation, Ltd., Wilmington, Del. Nineteen of his patents were variations on a process for breaking petroleum emulsions. The other three were also chemical.

Mr. De Groote has received many other patents before, the Patent Office said. Believed to have held the most patents during his lifetime was Thomas A. Edison, with 1093.

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Bigger than a shoebox, the largest gold nugget ever found in this country weighed 214 pounds, 8 ounces troy, including a piece of quartz attached to one side; at its discovery in 1854, it was valued at about \$38,000, but now it is worth twice that.

Questions

BIOCHEMISTRY—How is gamma globulin made? p. 77. . . .

ENGINEERING—Where is the longest automobile tunnel in the world? p. 67. . . .

METEOROLOGY—What effects are expected from shaking salt on clouds? p. 68. . . .

PSYCHIATRY—What can you do if a mentally ill person enters your office with a gun? p. 68. . . .

PUBLIC HEALTH—What is being tried as a polio preventive? p. 70. . . .

SEISMOLOGY—How severe was the California earthquake? p. 69. . . .

STATISTICS—How long can a 50-year-old man expect to live? p. 73. . . .

SURGERY—How can the pain of tic douloureux be relieved without facial numbness? p. 67. . . .

Photographs: Cover, Dr. Carl Fries, Jr.; p. 67, Western Electric; p. 69, California Institute of Technology; p. 71, Sperry Gyroscope; p. 75, Fremont Davis; p. 78, General Electric.