

• Books Off the Press •

AGRICULTURAL SCIENCE TO SERVE YOUTH—Warren Peter Everote—*Columbia Univ.* 79 p., \$1.85. Contributions to Education No. 901. This book is the result of a course in experimental science for secondary-school students.

ANIMAL FACES—R. Marlin Perkins—*Foster & Stewart*, 93 p., illus., \$1.50. A series of very clever animal photographs.

AS WE WIN—Post-War Planning Committee—*Dept. of Educ. and Research of C. I. O.*—31 p., illus., paper, 5c. Report No. 1. An important labor group looks at the war and post-war period with special reference to inflation and social security.

THE CANVASBACK ON A PRAIRIE MARSH—H. Albert Hochbaum—*Am. Wildlife Inst.*, 201 p., illus., \$3.

CHINA—Mai-Mai Sze—*Western Reserve Univ. Press*, 59 p., paper, 25c., Toward a Democratic Foreign Policy, Reference Pamphlet No. 2.

CONCERNING JUVENILE DELINQUENCY—Henry W. Thurston—*Columbia Univ. Press*, 236 p., \$2.75.

CONTRIBUTIONS FROM THE UNITED STATES NATIONAL HERBARIUM; Vol. 29, Part 1, Taxonomic Studies of Tropical American Plants—C. V. Morton—*Govt. Printing Off.*, 86 p., paper, 25c.

EMPIRE OF THE AIR; Juan Trippe and the Struggle for World Airways—Matthew Josephson—*Harcourt, Brace & Co.*, 236 p., illus., \$3.

THE HOME MEDICAL BOOK—Royal S. Copeland—*Winston*, 612 p., illus., \$2.50, rev. ed.

INFRARED SPECTROSCOPY—R. Bowling

Barnes, Robert C. Gore, Urner Liddel and Van Zandt Williams—*Reinhold*, 236 p., illus., \$2.25. Industrial applications and a bibliography of infrared spectroscopy.

MILITARY APPLICATIONS OF MATHEMATICS—Paul P. Hanson—*McGraw-Hill*, 447 p., illus., \$3. The object of the book is to provide direct training in the practical mathematical work of the various branches of the armed services, with insight into the reason why each type of work is needed. The problems taken up include maps and map reading, field artillery, air navigation, practical military engineering, etc.

NEOPRENE (GR-M)—Dept. of Labor—*Govt. Printing Off.*, 45 p., illus., paper, 10c. Rubber Series No. 1. Safeguarding workers handling synthetic rubber in the rubber industry.

PLANS FOR BUILDING DRIVER TESTS—*American Automobile Assoc.*, 28 p., illus., paper, \$1. Detailed instructions useful to those administering driver tests especially in these days when apparatus is not always obtainable.

QUARTERLY OF THE COLORADO SCHOOL OF MINES; Vol. 39, No. 2, Review of Petroleum Geology in 1943—F. M. Van Tuyl—*Colo. Sch. of Mines*, 127 p., illus., paper, \$1.

VIRUS DISEASES IN MAN, ANIMAL AND PLANT—Gustav Seiffert—*Phil. Library*, 332 p., illus., \$5. A survey and reports covering major research work done during the last decade.

YOUR LIFE'S WORK—Samuel Spiegler—*Riverdale Press*, 450 p., \$2.50. Advice in-

tended particularly for Jewish young people written by the Research Director of the Jewish Occupational Council.

WHAT IS EDUCATION?—Edward Leen, C.S. Sp.—*Sheep & Ward*, 288 p., \$3. This book presents a Catholic viewpoint.

Science News Letter, May 6, 1944

NUTRITION

Eating of Glucose Partly Replaces Water

► MEN in the dire need of water that comes when adrift on a raft at sea can, surprisingly enough, meet part of their requirements through eating glucose, Prof. James L. Gamble of Harvard Medical School told the Philadelphia meeting of the American Philosophical Society.

"It turns out that a part of the water requirement found for fasting can be replaced by glucose, and all of the physiological benefits of glucose can be gained, at no cost to the water exchange," he stated.

Hydrogen and oxygen are present in glucose, as well as in other carbohydrates, in the same two-to-one proportion that represents water, but with the addition of half-a-dozen carbon atoms per molecule. The rearrangement by which the body is able to make use of these elements is physiologically complex, but the living mechanism of human cells can do it if the need is great enough.

Science News Letter, May 6, 1944

Resistance to Infection

and antibody production apparently are closely linked to quantitative and qualitative protein-adequacy of the diet.* Meat not only is a rich source of proteins, but its proteins, being of highest biologic value, are the RIGHT KIND for antibody production.

*"It is evident, therefore, that antibody production is but a phase of protein metabolism and that a protein deficiency, whether due to an inadequate protein intake, to protein loss, or to defective protein metabolism, must, in time, impair the maturation or preservation of the antibody mechanism. . . . This means, in turn, that food may play a decisive part in infectious processes in which antibody fabrication is desirable." Cannon, Paul R.: Protein Metabolism and Acquired Immunity, *J. Am. Dietet. A.* 20:77 (Feb.) 1944.



The Seal of Acceptance denotes that the nutritional statements made in this advertisement are acceptable to the Council on Foods and Nutrition of the American Medical Association.

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