

Books of the Week

ANTI-SEMITISM: A SOCIAL DISEASE—Dr. Everett R. Clinchy—*International Univ. Press*, 140 p., \$2.50. A psychoanalytic study of anti-semitism, interpreting the results as they affect the individual and his relation to society.

BEAUTY PLUS—The Key to Beauty, Health, and Charm—Mary MacFadyen, M. D.—*Emerson*—272 p., illus., \$2.49. A popular discussion of health and beauty, leading to personality improvement.

A CENTURY OF FARMING IN IOWA—1846-1946—Iowa State College Staff Members—*Iowa State College Press*, 358 p., illus., \$5. Published on the 100th Anniversary of Iowa's Statehood, this history of agricultural practices shows its development under the application of increasingly knowledgeable scientific principles.

DRAFTING FOR ELECTRONICS—L. F. B. Carini—*McGraw-Hill*, 211 p., \$2.50. A careful development of the subject from fundamental techniques in drafting to their final application.

EXPLOSION AND COMBUSTION PROCESSES IN GASES—Wilhelm Jost; Translated by Huber C. Croft—*McGraw-Hill*, 620 p., \$7.50. Translation of the classic German work on jet propulsion first published in 1935.

FOOD & HEALTH—Henry C. Sherman—*Macmillan*, new ed. 290 p., \$4. Advances in the improvement of food habits to create positive health and longer life. Completely rewritten.

GAS TURBINES AND JET PROPULSION FOR AIRCRAFT—G. Geoffrey Smith—*Aircraft Books, Inc.*, 256 p., illus., \$5. This

new enlarged edition should stimulate interest in the field of jet propulsion. The material is presented clearly for the engineer, the pilot and the layman.

INFORMATION PLEASE ALMANAC 1947—John Kieran—*Garden City*, 1014 p., \$2. A compilation of well-indexed facts, comprising a history of the past year.

INORGANIC CHEMISTRY—W. Norton Jones—*Blakiston Co.*, 818 p., illus., \$4.25. A textbook of first year college chemistry.

LABORATORY MANUAL FOR PRINCIPLES AND PROCESSES OF PHARMACY—Henry M. Burlage, Ed.—*McGraw-Hill*. 271 p., paper, \$3. A variety of experiments and the optimum amount of work that should be offered the student pharmacist.

PACIFIC SCIENCE, A Quarterly Devoted to the Biological and Physical Sciences of the Pacific Region, Vol. 1, No. 1, Jan. 1947—A. Grove Day, Ed.—*Univ. of Hawaii*. 62 p., illus., paper, \$3 a year; single copies \$1.

REPORT OF THE SECRETARY OF THE SMITHSONIAN INSTITUTION AND FINANCIAL REPORT OF THE EXECUTIVE COMMITTEE OF THE BOARD OF REGENTS FOR THE YEAR ENDED June 30, 1946. *Govt. Printing Office*, 134 p., paper, 35 cents. Publ. 3864.

SAUDI ARABIA: With an Account of the Development of Its Natural Resources—K. S. Twitchell—*Princeton Univ. Press*, 192 p., illus., \$2.50. The geography, resources, history and customs of this nation as it emerges into modern world economy.

SYSTEMATIC MOTION AND TIME STUDY—Marvin E. Mundel—*Prentice-Hall*, 232 p., illus., \$4. The basic principles of work analysis and time study technique applied to various types of operations.

VITALIZED GENERAL SCIENCE—Barclay M. Newman—*College Entrance Book Co.*, 380 p., paper, illus., 75 cents. General science for high school students.

Science News Letter, February 8, 1947

PHYSICS

Radiant Heat De-Ices Windshields of Cars, Planes

► DE-ICING windshields, perennial winter problem in both aircraft and automobiles, is attempted in a new way, by direct radiant heat, in a device on which U. S. patent 2,414,520 has been granted to H. A. Greenwald of Hollywood, Calif. He has assigned his patent rights to the Lockheed Aircraft Corporation.

Blowing blasts of warm air up the inside of the glass panels of a windshield, or through a space between parallel panels, doesn't work very well in practice, the inventor points out, because glass is a rather poor conductor of heat. By directing infra-red radiation through the glass, from electro-thermal elements in

trough-shaped reflectors, heat is applied immediately to the ice itself, readily thawing and loosening it.

The new device will work equally well with solid plate glass and with sandwich-constructed safety glass, it is claimed.

Science News Letter, February 8, 1947

CHEMISTRY

Long-Life Radioactive Iodine from Tellurium

► A NEW LONG-LIFE radioactive iodine has been produced by bombarding the chemical element tellurium. Instead of the relatively short existence of the usual radioiodine used in medical treatments, the new synthetic iodine is believed to have a half-life of either 10 or 400 years.

Iodine isotope 129, hitherto missing from accepted tables, was made by bombardment with hearts of heavy hydrogen or deuterons speeded to 14,500,000 electron-volts in the MIT cyclotron. Dr. Allen F. Reid, at Columbia University when the experiments were made, and Dr. Albert S. Keston of New York University, report their discovery in the *Physical Review*.

Science News Letter, February 8, 1947

Bats and whales are *mammals* in spite of the fact that one flies and the other swims.

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