

Books of the Week

TO SERVE YOU: To get books, send us a check or money order to cover retail price. Address Book Dept., SCIENCE NEWSLETTER, 1719 N St., N. W., Washington 6, D. C. Ask for free publication direct from issuing organizations.

AMBULATION: Physical Rehabilitation For Crutch Walkers—Kenneth A. Denning, Frank S. Deyoe, Jr., and Alfred B. Ellison—*Funk & Wagnalls*, 188 p., illus., \$3.50. Showing the patient, with abundant illustrations, how to get up curbs, up and down stairs, into automobiles, etc.

BASIC ORGANIC CHEMISTRY—J. Rae Schwenck and Raymond M. Martin—*Blakiston*, 323 p., illus., \$4.50. A one-semester text for students majoring in other fields.

BRIEF COURSE IN ANALYTICS—M. A. Hill, Jr., and J. B. Linker—*Holt*, rev. ed., 224 p., \$2.40. Intended to develop the student's powers of reasoning and help him to "think in the language" of mathematics.

CLIMATE IN EVERYDAY LIFE—C. E. P. Brooks—*Philosophical Library*, 314 p., illus., \$4.75. How to make the best of whatever climate we may have to live with, by selecting the most favorable sites for factory and home, by creating artificial indoor climates and by other means.

COLLEGE ALGEBRA—Henry L. Rietz and Arthur R. Crathorne—*Holt*, 5th ed. rev. by J. William Peters, 387 p., \$2.95. A text for freshmen in college or for technical schools.

CONFERENCE ON PROBLEMS OF AGING—Nathan W. Shock, Ed.—*Josiah Macy, Jr. Foundation*, 215 p., \$3.50. Contributions by experts from many fields.

CRITICAL FACTORS IN MANAGEMENT PLANNING—*American Management Association*, 32 p., paper, \$1.25. Contains a section on A-bomb protection in industry.

DISTRIBUTION OF THE VARIETIES AND CLASSES OF WHEAT IN THE UNITED STATES IN 1949—J. Allen Clark and B. B. Bayles—*Govt. Printing Office*, USDA Circular 861, 71 p., illus., paper, 25 cents.

ELEMENTARY PARTICLES—Enrico Fermi—*Yale University Press*, 110 p., \$2.50. Material presented in the Silliman Lectures at Yale University in April, 1950, for the general public and physics students.

ENGINEERING MATERIALS MANUAL—T. C. Du Mond, Ed.—*Reinhold*, 386 p., illus., \$4.50. Describing generally available steels from the standpoint of their characteristics and common uses.

FAMILY CENTERED MATERNITY AND INFANT CARE—Edith B. Jackson and Genevieve Trainham, Eds.—*Josiah Macy, Jr. Foundation*, 29 p., paper, 25 cents. Report of the Committee on Rooming-In.

FUNDAMENTALS OF ELECTRICAL ENGINEERING—Fred H. Pumphrey—*Prentice-Hall*, 668 p., illus., \$7.65. A text for students specializing in other fields.

GOOD LAND FROM POOR SOIL—Edward Ringwood Hewitt—*Trenton Printing Co.*, 137 p., paper, \$1.50. A chemist with experience as a farmer tells other farmers how to keep their land in good condition.

THE GROWTH OF SCIENTIFIC IDEAS—William P. D. Wightman—*Yale University Press*, 495 p., illus., \$5.00. The history of science from the approach of searching out the origin of certain basic ideas or concepts. A readable book.

ILLUSTRATED MATHEMATICAL POST CARDS—*Scripta Mathematica*, 30 cards, \$1.50, or 5 cents each. Ten portraits of famous mathematicians and twenty geometrical designs designed to aid mathematics teachers to make the subject more palatable.

INVENTORIES OF APPARATUS AND MATERIALS FOR TEACHING SCIENCE: Volume III, Technical Colleges, Part II Physics and Chemical Engineering—*UNESCO (Columbia Univ. Press)*, 116 p., paper, \$1.50. Another in UNESCO's series intended to aid in the teaching of science.

MANPOWER RESOURCES FOR THE EMERGENCY—*American Management Association*, 44 p., paper, \$1.25. Includes a section on national mobilization policy.

MUSEUM PICTORIAL, NUMBER 1, Denver Museum of Natural History, 62 p., illus., four or more times a year, \$1.50. A magnificently illustrated publication printed by offset, each issue devoted to a single topic. The first is on Nature Photography with Miniature Cameras.

PHARMACEUTICAL BOTANY—Heber W. Youngken—*Blakiston*, 7th ed., 752 p., illus., \$7.00. For students and pharmacists.

PHARMACOLOGY: The Study of Natural Drug Substances and Certain Allied Products—Robertson Pratt and Heber W. Youngken, Jr.—*Lippincott*, 644 p., illus., \$8.50. A textbook with emphasis on the chemical, physical, and physiologic principles involved in the production and application of plant and animal drugs.

PLANT LAYOUT: Developing and Improving Manufacturing Plants—John A. Shubin, and Huxley Madeheim—*Prentice-Hall*, 433 p., illus., \$7.35. Covers the principles, techniques and procedures connected with the selection and layout of plant facilities.

PRINCIPLES OF GENERAL CHEMISTRY—Stuart R. Brinkley—*Macmillan*, 4th ed., 703 p., illus., \$5.00. A college text revised to have greatly expanded treatment of atomic structure.

PRINCIPLES AND METHODS OF SHEET-METAL FABRICATING—George Sachs—*Reinhold*, 526 p., illus., \$10.00. For sheet-metal workers, especially in aircraft factories.

PROBLEMS OF INFANCY AND CHILDHOOD—Milton J. E. Senn—*Josiah Macy, Jr. Foundation*, 181 p., \$2.50. Transactions of the fourth conference.

STRUCTURAL GEOLOGY OF NORTH AMERICA—A. J. Eardley—*Harper*, 624 p., illus., \$12.50. Describing the structural evolution of the North American continent and chronicling its crustal unrest.

SYMPOSIUM ON THE HEALTHY PERSONALITY—Milton J. E. Senn, Ed.—*Josiah Macy, Jr. Foundation*, 298 p., \$2.50. Transactions of special meetings of conference on infancy and childhood.

VACUUM-TUBE VOLTMETERS—John F. Rider—*Rider*, 2d ed., 422 p., illus., \$4.50. A revised edition of a textbook for those already familiar with the vacuum tube.

WORKBOOK AND LABORATORY MANUAL TO ACCOMPANY HIGH SCHOOL PHYSICS WITH TESTS—Oswald H. Blackwood, Wilmer B. Herron, and William C. Kelly—*Ginn*, 277 p., illus., paper, \$1.40. May accompany any standard high school text but intended especially for the authors' "High School Physics".

Science News Letter, May 19, 1951

INVENTION

Glow Plug Heating Makes Diesel Engine Starting Easy

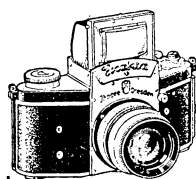
► THE DIFFICULT job of starting a diesel engine in cold weather is eased by an improved starter system which was awarded a patent by the government.

Cold diesels in outdoor equipment absorb a great amount of heat from the compression gases before the temperature in the combustion chamber is high enough to cause ignition. This makes starting difficult.

This invention, like commonly used diesel starters, utilizes glow plugs in the engine block that extend into the combustion chamber, the plugs being heated electrically. The plugs must be energized enough to cause effective ignition, and kept energized after firing until the engine is operating properly. The feature of this invention is a control system that keeps the starter itself from beginning to operate until the glow plugs have created a proper temperature, and then keeps the plugs glowing until the engine is running smoothly.

The inventor is Gustave D. Cerf, Livingston, N. J. Patent 2,552,256 was awarded to him. Rights have been assigned to Thomas A. Edison, Inc., West Orange, N. J.

Science News Letter, May 19, 1951



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