

report covers many phases of farm life and activity. Free from: Rutgers University, New Brunswick, N. J.

THE SELECTED WRITINGS OF BENJAMIN RUSH—Dagobert D. Rune, ed.—*Philosophical Lib.*, 433 p., \$5.00. Excerpts from the writings of this great naturalist and physician who was one of the fiery, uncompromising spirits of the American Revolution.

SUNSPOTS IN ACTION—Harlan True Stetson—*Ronald*, 252 p., \$3.50. Information from various fields of science is here brought together, with emphasis upon the sun's effect on the atmosphere of the earth; factual evidence regarding sunspots is set forth, and the author also examines critically certain hypotheses concerning the earth's relationship to its cosmic environment.

SURVEY OF EXISTING INFORMATION AND DATA ON RADIO NOISE OVER THE FREQUENCY RANGE 1-30 Mc/s—H. A. Thomas and R. E. Burgess—*His Majesty's Stationery Office*, Department of Scientific and Industrial Research, Radio Research Special Report 15, 126 p., illus., paper, 60 cents. Available from: His Majesty's Stationery Office, London, England.

THEORY OF FUNCTIONS—J. F. Ritt—*King's Crown Press*, 181 p., paper, \$3.00. This basic college text emphasizes the complex variable, and prepares the student for more advanced courses on the real variable.

THE THEORY OF MATHEMATICAL MACHINES—Francis J. Murray—*King's Crown Press*, 116 p., illus., paper, \$3.00. Basic principles of mathematical devices, covering both mechanical and electronic methods of operation.

TOUCHSTONE FOR ETHICS—T. H. Huxley and Julian Huxley—*Harper*, 257 p., \$3.00. Reprints of the Romanes Lectures by grandfather and grandson, seeking a moral and scientific basis for insuring that emergent new civilizations will be founded on principles harmonious with those of present day morality.

A TRIP THROUGH MELLON INSTITUTE—*Mellon Institute*, 4th ed., 20 p., illus., paper. History of the Institute's Fellowship system and a tour of its physical plant. Free from: Mellon Institute, Pittsburgh, Pa.

UNDERSTANDING YOURSELF AND YOUR SOCIETY—John M. Ewing—*Macmillan*, illus., 357 p., illus., \$2.25. For high school seniors, this book on individual and social psychology and sociology is non-technical, practical, and refreshingly-written.

UNITED STATES ARMY IN WORLD WAR II: The Army Ground Forces—The Organization of Ground Combat Troops—Kent Roberts Greenfield, Robert R. Palmer, and Bell I. Wiley—*Govt. Printing*, 540 p., \$3.25. Issued by the Historical Division, Department of the Army, this is the first in a long series of volumes documenting World War II, and describes the mobilization and preparation for combat of the ground army.

WAX AND FATTY BYPRODUCTS FROM SUGARCANE—Royal T. Balch—*Sugar Research Found.*, Technological Report Series No. 3, 62 p., paper. Sugar cane is analyzed for other useful products which may be extracted from it. Free from: 52 Wall St., New York 5, N. Y.

WEATHER HORIZONS—Frances Day Ashley, *American Meteorological Society*, 79 p., paper. A series of articles discussing various types of careers in meteorology, and the factors influencing them. Free from: 5 Joy St., Boston 8, Mass.

WHAT YOU CAN DO FOR HIGH BLOOD PRESSURE—Peter J. Steincrohn—*Double-day*, 191 p., \$2.50. Written for the layman, this book gives valuable information concerning the symptoms and treatment of high blood pressure, with suggestions for the hypertensive's adjustment to a new way of life.

WIND TUNNEL TESTING—Alan Pope—*Wiley*, 319 p., illus., \$5.00. This first thorough study in the field presents data concerning all types of wind tunnels.

WORD FINDER—J. I. Rodale—*Rodale Press*, 1317 p., \$6.50. Planned as an aid to the writer, this work assists in effective sentence structure by supplying associative modifying and action words.

Science News Letter, November 8, 1947

PSYCHOLOGY

Mentally Ill See Less Motion in Still Pictures

► ORDINARILY it is the mentally ill person who sees things that are not there. But when it comes to seeing people dancing, running, or moving about in a still picture, the normal person is better.

In fact, a test based on this ability to see figures in motion on cards of varying shading and contours, can be used to distinguish between normal and abnormal individuals. Drs. Joseph Zubin, David M. Levy, and Ralph Rust, of the New York Psychiatric Institute, have reported to the American Psychological Association.

Science News Letter, November 8, 1947

THE CHEMICAL ELEMENTS

Compiled by
PHILIP S. CHEN, Ph. D.
PROFESSOR OF CHEMISTRY, ATLANTIC UNION COLLEGE

WALL CHART

(Actual Size 38 x 50 inches)

CONTAINS THE FOLLOWING UNBELIEVABLY VAST AMOUNT OF INFORMATION CONCERNING EACH ELEMENT

- Periodic table (based on atomic numbers)
- Periodic table (based on atomic weights)
- Group and family
- Name in English, German, and French
- Derivation
- Discovery: Date, discoverer, nationality
- Symbol and atomic number
- Arrangement of electrons in orbits
- Atomic weight
- Logarithm of atomic weight
- Isotopes and valence
- Crystalline form and color
- Specific gravity or density
- Melting and boiling points
- Specific heat

- Heats of vaporization and fusion
- Heat conductivity
- Electrical resistivity
- Coefficient of thermal expansion
- Occurrence, preparation, and uses
- The radioactive elements
- Activity series
- Distribution in earth crust, in ocean, in atmosphere, and in human body
- Mechanical properties of principal metals
- Alchemical symbols
- Alchemical constants for gaseous elements
- Flame and test-tube tests
- Index to the elements

The chart is so self-explanatory that a key, which is usually necessary for other charts, is not necessary for its intelligent use. Numerical values are given for constants that are represented in other charts by signs and varying lengths of lines or columns.

- Used by more than 1000 universities, colleges, high schools
- Princeton
- Chicago
- Ohio State
- Mass.
- Rutgers
- Wisconsin
- Washington and Lee
- Oregon
- Iowa State
- Kansas
- Ohio
- Owens
- Occidental College
- Seaside
- California Institute of Technology
- Dartmouth
- Pennsylvania
- West Virginia
- Harvard
- Howard
- Kentucky

PRICES, Postpaid

Single copies: \$1.00 Unmounted. Mounted on mullin, with rollers \$ 5

10 or more copies for students 50¢ each.

(Money refunded if unmounted chart is unsatisfactory)

Order your copies today from

THE CHEMICAL ELEMENTS • BOX 315, S. LANCASTER, MASS.

Atomic bomb elements included in latest edition.

