

The subject-matter is developed along the lines usually employed; A Consideration of the Laws of Gases, Energy and Its Laws, Solutions and Electrolytic Dissociation, Chemical Mechanics, Equilibrium and Electrochemistry. The choice of material considered under these different heads has been well made. No padding with useless commercial processes is visible. The book is a scientific treatise somewhat cramped for room. It may serve well when used in connection with a course of lectures or together with some more general work on the subject. A collection of 78 problems, with answers, completes the book. These problems are well selected to illustrate the most important laws of physical chemistry.

W. R. WHITNEY.

PHYSICAL CHEMISTRY AND ITS APPLICATIONS IN MEDICAL AND BIOLOGICAL SCIENCE. By ALEX. FINDLAY, M.A., PH.D., D.SC., Lecturer on Physical Chemistry, University of Birmingham. London, New York and Bombay: Longmans, Green & Co. 68 pages. Price, 75 cents.

The matter in this little book was presented to students interested in subjects related to medicine, in the form of lectures which were later printed in the *Birmingham Medical Review*. As they now appear in book form they afford a very readable exposition of the elementary principles of physical chemistry in non-mathematical treatment. The author has made a good selection of material and has given enough of fact and theory to satisfy the needs of many students whose work touches chemistry but incidentally.

J. H. LONG.

RECENT PUBLICATIONS.

THE CYANIDE INDUSTRY THEORETICALLY AND PRACTICALLY CONSIDERED. By R. Robine and M. Lenglien. Translated by J. Arthur LeClerc with an appendix by C. E. Munroe. New York: J. Wiley & Sons. 1906. 11+408 pp. \$4.00.

ELECTRIC FURNACES AND THEIR INDUSTRIAL APPLICATIONS. By J. Wright. New York: Norman W. Henley Pub. Co. 1905. 10+288 pp. \$5.00.

URINARY ANALYSIS AND DIAGNOSIS BY MICROSCOPICAL EXAMINATION. By L. Heitzmann. Second edition. New York: W. Wood & Co. 1906. \$2.50.

TEXT-BOOK OF PHARMACOLOGY. By A. R. Cushny. Fourth edition. London: Rebman. 1906. 17/6.

THIRD TREATISE ON THE EFFECTS OF BORAX AND BORIC ACID ON THE HUMAN SYSTEM. BEING A CRITICAL REVIEW OF THE REPORT OF DR. H. W. WILEY, CHIEF OF THE BUREAU OF CHEMISTRY OF THE U. S. DEPARTMENT OF AGRICULTURE. By O. Liebreich. London: Churchill. 1906. 78 pp. 5/.