

of bad presswork in blurring or entire omission of letters, words and subscripts.

We may say, without reservation, that this book will take and hold a preëminent place among works of its class, and it is just such as will be greatly extended in use by a translation.

E. T. ALLEN.

CHEMISCH-TECHNISCHE UNTERSUCHUNGSMETHODEN HERAUSGEGEBEN VON DR. GEORG LUNGE. Fünfte Auflage, Ersterband, mit 180 abbildungen. xxvi + 953 pp. 8vo. Price: Paper 20 marks. Bound, 22 marks. Berlin: Verlag von Julius Springer.

This is the fifth edition of a valuable work. The fact that the last (third) volume of the fourth edition bears the date 1900 shows that the work is appreciated by the chemical public.

The operations described under each heading are divided into three sections: The examination of raw material, the analytical and other methods needed to control the manufacture, and the examination of the product.

This is frankly a book intended to be of use to those actually engaged in manufacture and all methods chemical and physical are given together. This first volume is divided as follows: General Operations to page 210, by Dr. Lunge; Technical Gas Analysis and Fuel Examination to page 264, by Dr. Ferd. Fischer; Manufacture of Sulphurous, Nitric and Sulphuric Acids, Sulphate and Muriatic Acid, Soda and Chlorine to page 524, by Dr. Lunge; Potash Salts to page 553, by Dr. L. Tietjens; Cyanogen Compounds to page 573, by Dr. H. Freudenberg; Clay Analysis to page 600, by Ph. Kreiling; Examination of Pottery to page 616, by K. Dümmler; Aluminum Compounds to page 632, by Dr. Lunge; Glass to page 672, by E. Adam; The Mortar Industry to page 767, by Dr. Carl Schoch; Potable Water to page 836, by Dr. L. W. Winkler; Boiler Water to page 846, by Dr. Lunge; Sewage and Soils to page 908, by Dr. E. Haselhoff; The Air to page 953, by Dr. K. B. Lehmann.

Complete unity of treatment and avoidance of occasional repetition can hardly be expected in a work put together in this way, but the result of coöperation is a more useful book. Dr. Lunge is a very painstaking editor and has turned out an admirable volume, which will be useful to all concerned in the subjects treated. The publishers promise the second volume by the end of 1904, and the third before July, 1905.

EDWARD HART.