

CHEMISCH TECHNISCHE UNTERSUCHUNGS METHODEN. VON DR. GEORG LUNGE. Zweiter Band mit 150 Abbildungen, Funfte Auflage. Berlin: Julius Springer. 8vo. xx+842 pp. Price, 16 marks; bound, 18 marks.

The fourth edition was printed in 1900, which shows that the book is in demand. The part treating of iron, by Th. Beckert, comprises 104 pages. The process for the determination of silicon in iron with nitric and sulphuric acids is ascribed in this, as in the fourth edition, to Brown. It should read Drown. No reference is made to the numerous forms of platinum apparatus, of which Shimer's was the first, for burning the carbon in air or oxygen. The combustion of the separated carbon in oxygen takes up just about one-fourth page—far too little space for satisfactory treatment. Knorre's method of precipitating manganese as dioxide by ammonium persulphate is given, but the colorimetric process, founded upon the conversion into permanganate in a nitric acid solution in presence of silver nitrate, is not mentioned. The number of pages devoted to iron (104) is the same in both editions. The section on "Metals Other Than Iron," by Dr. O. Pufahl, comprises 276 pages. Under silver no mention is made of the use of cement cupels. Under the electrolytic determination of copper no reference is made to the use of rotating electrodes. The examination of artificial manures, by Dr. O. Böttcher, takes up 67 pages, 25 pages are devoted to fodders, edited by Dr. F. Barnstein; 44 to explosives, edited by O. Guttmann; 30 pages to fireworks, edited by Wladimir Jettel; 161 pages to gas and ammonia, by Drs. Otto Pfeiffer and G. Lunge; 19 pages to calcium carbide and acetylene, by Dr. G. Lunge; 72 pages to coal tar, by Dr. H. Köhler; and 46 pages to the inorganic colors, by Dr. R. Gnehm.

In a work of such magnitude, contributed to by so many persons, some unevenness of treatment, and some errors both of omission and commission are to be expected, but the book, like preceding editions, is well written and carefully edited.

EDWARD HART.

CHEMISCHE TECHNOLOGIE UND ANALYZE DER OELE FETTE UND WACHSE, VON DR. J. LEWKOWITSCH. Zwei Bande, Band I, 448, Bd. II, 768 Seiten. Braunschweig: Friedr. Vieweg und Sohn. Preis geheftet, 32, gebunden, 34 Marks.

This work appeared originally as a translation and enlargement of Benedikt "Die Analyse der Fette und Wachsarten," and now after passing through two English editions, expanding each time, reappears in a German edition from the third English. When it