

and Fritsche & Co.'s patents in full, explains the methods for the manufacture of vanillin, heliotropin, artificial musk, hyacinth, etc. The appendix contains a valuable table of the constants for the more important essential oils. The book can be thoroughly commended as furnishing a compact and convenient reference book on the subject. SAMUEL P. SADTLER.

CHEMISCH-TECHNISCHE UNTERSUCHUNGSMETHODEN. Herausgegeben von DR. GEORG LUNGE. Dritter Band, mit 104 abbildungen. Vierte auf- lage. xxii + 1082 pp. Berlin: Verlag von Julius Springer. 1900. Price, M. 23.

This volume contains Mineral Oils and Examination of Lubri- cants, by Dr. D. Holde; Oils and Fats and Special Methods of the Oil and Fat Industry, by Dr. Rob. Henriques; Examina- tion of Resins, Balsams and Gum Resins, and Drugs and Galen- ical Preparations, by Dr. Karl Dieterich; Caoutchouc and Caoutchouc Wares, by Dr. Rob. Henriques; Ethereal Oils, by Dr. E. Gildemeister; Raw Materials, Products, and By-products of Sugar Manufacture, by Dr. O. von Lippmann and Dr. Georg Pulvermacher; Starch, by Dr. C. von Eckenbrecher; Spirits, by Dr. A. Ebertz; Brandy and Liqueurs and Vinegar, by Dr. G. Schüle; Examination of Wine, by Dr. Karl Windisch; Beer, by Prof. L. Aubry; Examination of Vegetable Material Con- taining Tannin, by Dr. C. Counciler; Leather, by Dr. Joh. Paessler; Paper, by W. Herzberg; Ink, by O. Schluttig and Dr. G. S. Newmann; Organic Preparations, by Dr. J. Messner; The Tartaric Acid Industry and Citric Acid Manufacture, by Dr. Hermann Rasch; and Organic Dyes and the Examination of Textile Fibers and Loading Materials, by Dr. R. Gnehm.

This is a wide range of subjects, which seem in the main to be well covered. The authors confine themselves very closely to methods of testing. Very little is said about methods of manu- facture. This seems on the whole something of a defect, for while it is true that information of this sort is otherwise attainable, it is widely scattered and one of the chief values of such a compila- tion as this is found in the saving of the time of the busy work- ing chemist. Very few chemists can expect to fully cover, even in analytical knowledge, so wide a range as is here presented.

The "Anhang" contains numerous tables from the body of the work printed on one side of the paper for pasting on the

laboratory wall. Some of these tables are: Correction of the Specific Gravity of Petroleum for Different Temperatures; Specific Gravity of Aqueous Glycerine Solutions; Refractive Index of Aqueous Glycerine Solutions; Specific Gravity of Methyl Alcohol; Specific Gravity of Mixtures of Ortho- and Paratoluidin; Determination of Monoethyl and Diethyl Anilin; Solidifying Points of Acetic Acid; Specific Gravity of Oxalic Acid Solutions.

The book is a monument of patient industry and is worth more than it costs. It is a good piece of book work mechanically considered.

E. H.

BOOKS RECEIVED.

Bulletin of the United States Geological Survey, No. 176. Some Principles and Methods of Rock Analysis. 114 pp.

The Hessian Fly in West Virginia and How to Prevent Losses from its Ravages. By A. D. Hopkins, Ph.D. Bulletin 67. W. Va. Agricultural Experiment Station, Morgantown, W. Va. August, 1900. 16 pp.

Report on the Geology of the Essequibo, Potaro, Konawaruk and Demerara Rivers, British Guiana. Georgetown, Demerara. 1900. 82 pp. 4to.

Quantitative Chemical Analysis, adapted for use in the Laboratories of Colleges and Schools. By Frank Clowes, D.Sc. (Lond.), and J. Bernard Coleman, A. R. C. Sc. (Dublin). Fifth Edition. Philadelphia: P. Blakiston's Son & Co. 1900. xxiv + 592 pp. Price \$3.50.

Decision of the U. S. Circuit Court of Appeals on the Indoine Blue Case. 27 pp. Kuttroff, Pickhardt & Co., P. O. Box 2885, New York City.

Chemisch-technische Untersuchungsmethoden. Herausgegeben von Dr. Georg Lunge. Dritter Band, mit 104 in den Text gedruckten Abbildungen. Vierte vollständig umgearbeitete und vermehrte Auflage. Berlin: Verlag von Julius Springer. 1900. xxii + 1082 pp. Anhang iv + 55. Price, 23 marks.

Victor Von Richter's Textbook of Inorganic Chemistry, edited by Prof. H. Klinger, University of Königsberg. Authorized Translation by Edgar F. Smith, Professor of Chemistry in the University of Pennsylvania. Assisted by Walter T. Taggart, Instructor in Chemistry. Fifth American from the Tenth German Edition, carefully revised and corrected. With 68 illustrations in wood and colored lithographic plate of spectra. Philadelphia: P. Blakiston's Son & Co. 1900. xii + 430 pp. Price, \$1.75.

An Investigation into the Causes of So-called Uric-acid Lesions,