

intelligible to a beginner, who is plunged *ab initio* into a subject which he really cannot understand without the application of this law, by means of which the whole subject may be made beautifully clear and simple.

From the purely analytical point of view, the most interesting contribution by Böttger is the use of a systematic grouping of anions through the solubilities of the barium, lead and silver salts. For those who still favor the converting of the acids into soluble alkali salts as preliminary to the acid analysis, this grouping will probably prove welcome. In the experience of the writer, the change into alkali salts is subject to so many complications and exceptions and the gain by such a grouping is often so small, that it has been discarded except for the so-called "insoluble" (in acid) unknowns and all tests for acids, group and individual, are now carried out in *acid* solutions, without removing the cations: most of the important acid tests are, as it is, carried out in acid solutions and the results of the analysis for metal ions, with the solubilities of solid unknowns and the reaction of solutions, will usually give very considerable information as to what groups of acids may be present.

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PRACTICAL PHYSIOLOGICAL CHEMISTRY. BY PHILIP B. HAWK, Demonstrator of Physiological Chemistry in the Department of Medicine of the University of Pennsylvania. pp. 416. Price \$4.00 net. P. Blakiston's Son & Co., Phila.

This book is a combination of a laboratory manual and a text book. Attention is given in the main to the practical side of the subject but enough facts are introduced to make the outlined experiments intelligible. A new feature that has been introduced is a detailed study of the feces. One of the best points connected with this volume is the large number of beautiful illustrations of crystals and various pieces of apparatus.

F. P. UNDERHILL.

AUSFÜHRLICHES LEHRBUCH DER PHARMAZEUTISCHEN CHEMIE, BEARBEITET VON DR. ERNST SCHMIDT, Ordent Professor der Pharmazeutischen Chemie und Director der Pharmazeutischen-Chemischen Instituts der Universität, Marburg-Erster Band, Anorganische Chemie, Erste Abteilung; Metalle und Metallalloide Fünfte vermehrte Auflage. Viewig u. Sohn, Braunschweig, 1906. pp. 528. Ladenpreis: geheftet Mark 10.

For years past this book has occupied a unique place as a treatise on chemistry and although entitled Pharmaceutical Chemistry and containing much that is useful to the pharmacist it is really a book of the greatest value to chemists in general. As a book of reference it is of especial value as it contains a vast amount of information and is somewhat unique in that not a little part of the information is of the uncommon sort that one is not apt to find included in a single book. The part under review is the first section of the first volume of the fifth edition which comprises the