monograph on Hindu chemistry that will be indispensable in every library. HENRY CARRINGTON BOLTON.

THE TESTING OF CHEMICAL REAGENTS FOR PURITY. By DR. C. KRAUCH, chemist to the firm of E. Merck, Darmstadt. Authorized translation of the Third Edition by J. A. WILLIAMSON and L. W. DUPRÉ. With additions and emendations by the author. London: Maclaren & Sons; New York: D. Van Nostrand Co. 350 pp. 1903. Price, $4.50 net.

To prescribe a series of tests of chemical reagents which should be sufficiently detailed to cover their use in all sorts of highly specialized cases would be well-nigh impossible. The general and many of the special applications of the inorganic reagents and of such organic substances as are employed as solvents, indicators, or for special tests are, however, well provided for in the material which Dr. Krauch has compiled from various sources, and to which he has added the results of his own experience. For each substance the Latin name, symbol, molecular weight, and a brief description are given, and these are followed by discussions of the tests for impurities, the methods of quantitative estimation, the uses of the reagent, precautions to be observed in connection with its storage, and a description of its commercial varieties. An appendix includes the preparation of ordinary reagents and of normal solutions, a discussion of reagents and reactions in general, and a table of atomic weights [which, however, bears the date, 1890].

The translation seems to have been faithfully carried out. It may be questioned whether it would not have been preferable to add the references to English works and journals to those in other languages, rather than to substitute them, since the reader may often prefer to consult the original papers. The Lunge and Isler table for the strength of sulphuric acid at various densities is stated on page 309 to be more reliable than that of Kolb and it would seem that it should replace the latter table in this work.

To many who have found the German edition of Dr. Krauch's book a valuable assistance, this translation will need no endorsement; to others it can be recommended as a guide in determining the extent to which freedom from impurities in reagents may reasonably be expected, and in the selection of methods of testing.

H. P. T.