

PH.D. New York: The Macmillan Co. 1907. Svo. pp. xv + 218. Price, \$1.50 net.

The work includes introductory exercises in gravimetric analysis, acidimetry and alkalimetry, permanganate and dichromate titrations, iodimetry, stoichiometry, and a section on agricultural analysis covering the examination of milk, butter, cereals and feeding materials, fertilizers and soils.

The book is well written and contains a number of good illustrations. It will be welcomed by those beginners in agricultural analysis who have been obliged to use the methods of the Association of Official Agricultural Chemists in bulletin form in lieu of a text-book. The procedures are clearly and explicitly described and the explanatory notes are generally good. The numerical data selected to illustrate normal composition could in some cases be improved, but the only figures likely to be seriously misleading are those for starch in grain products on page 121.

The failure of the authors to make use of the conceptions of ionization, mass action and solubility product in the discussion of inorganic reactions and the entire omission of electrolytic methods are unfortunate in a text-book which is likely to represent the sole training in quantitative analysis of many of the students who use it. These, however, are omissions which may be supplied by the teacher and which the authors will probably correct in a subsequent edition.

The book will fill a real need in the case of the agricultural student for whom it is especially intended and will be found useful and suggestive to many others. It is commendably free from typographical errors and its general make-up is excellent.

H. C. SHERMAN.

Testing Milk and Its Products. By FARRINGTON and WALL. Madison, Wis.: Mendota Book Co. 1908. pp. 292. Price, \$1.00.

The authors have revised their useful book. The present constitutes the eighteenth edition, the first edition having been issued over ten years ago. Considerable matter has been added, which includes new methods that have come into recent use.

L. L. V. S.

The Chemistry of Commerce. By ROBERT KENNEDY DUNCAN. Harper Brothers. Price, \$1.50.

It is perhaps questionable whether "Chemistry of Commerce" should be reviewed in a scientific journal like that of the Chemical Society, inasmuch as the book can only be regarded as a report on certain spectacular topics, some of which barely lie within the broad domains of chemistry.

At the present time, anything which tends to stimulate industrial and applied chemistry in the United States, will be hailed with delight by every chemist of the land. That "Chemistry of Commerce" is intended to do this, is evident from the author's preface and introduction. Whether he has succeeded in stimulating the masses in this highly tech-