

NEW BOOK.

A Text-Book of Sanitary and Applied Chemistry or the Chemistry of Water, Air, and Food. By E. H. S. BAILEY, Ph.D., Professor of Chemistry, University of Kansas. Fourth Edition Revised. New York: The MacMillan Co., 1917. Cloth. 12 mo. xxiv + 394 pp. Price, \$1.60.

This fourth edition of Prof. Bailey's well-known Text-book of Sanitary and Applied Chemistry shows a considerable revision of the previous editions. New chapters have been added upon Textiles and upon Poisons and their Antidotes; the chapters upon Water Supplies and Sewage Disposal have been brought more fully to date, and many parts of other chapters have been rewritten.

The text of the book is supplemented with 197 carefully chosen experiments, so that the work will be found as useful for the laboratory as for the classroom. Prof. Bailey's treatment of his subject does not profess to be exhaustive. The outline which he gives with its bibliographic reference will be found, however, to supply a most excellent foundation for students who care to specialize in some particular field.

The reviewer has noted but few points upon which to pass criticism. The mixture of raw sugar and syrup prepared for refining is not a *massecuite*, as stated on page 245, but a magma. On page 340 dextrin is used incorrectly for glucose. 100 parts of dextrin should yield theoretically the same amount of alcohol as starch, instead of 51%, which is the yield for glucose. The flavor of West India rum is largely due to the esters produced in the "muck hole" and not to the "volatile oils that are produced in the manufacture of sugar from cane juice," as stated on page 341.

For its presentation of the practical problems concerned with heating, ventilating, lighting, cleaning, bleaching, etc., and with water and foods, Professor Bailey's book is one of the best of the elementary works which deal with the chemistry of every-day life in the home.

C. A. BROWNE.