

author is fully alive to recent work in some directions. The omission of an index from this volume will doubtless be rectified in the remaining one, which is shortly to appear. J. B. T.

NOTES FOR CHEMICAL STUDENTS. BY P. T. AUSTEN, Ph.D., F.C.S. Second Edition. vi + III pp. New York: John Wiley & Sons. Price, \$1.50.

"This is not intended to be a text-book of chemistry but to explain or supplement certain topics which experience has shown often give the student more or less trouble and which are not sufficiently considered in the text-books. No attempt has been made to include all the difficulties that may be encountered." In judging of the book it must be considered in how far it fulfils the above objects as set forth in the preface. The elementary theory of chemistry is treated at some length; the chapter on weight relations leading up to the law of combination in definite and multiple proportions is clearly written; the law is illustrated by a number of good examples, and its enunciation is clearly and felicitously expressed. The tables in the section on stoichiometrical calculations will also be found useful. Unfortunately, accuracy and clearness of expression have been too frequently sacrificed to brevity. In a text-book intended for general use this would call for emphatic comment, but it may be assumed that the author's students will see the experiments referred to, and will receive the required cautions and extended exposition of the subject; to them, therefore, the book will probably prove serviceable. On page 37, in the foot-note, oxygen appears to be printed for nitrogen. The terms specific gravity, volume-weight, and density, are used as synonyms; is it not better to limit the last to the weight of a gas in hydrogen units, and employ the first to indicate its weight in units of air? J. B. T.

ERRATA.

Page 293, (April number) twenty-eighth line, read "large" instead of "larger."

Page 295, thirty-fourth line, after "Series B" read "Time Constant: Masses Varied" instead of "Time Varied: Masses Constant."

Page 301, thirty-first line, read "inclusive" instead of "exclusive."