



Fownes Manual of Chemistry, Theoretical and Practical; A New American from the 12th English Ed., Embodying Watts Physical and Inorganic Chemistry.

By George Fownes

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1885 edition. Excerpt: .during the combustion of a nitrogenous substance, requires only 700 grain-measures 200 X 300 of the alkaline solution, it is evident that----= 60 grain-measures were saturated by the ammonia, and the quantity of nitrogen is obtained 1.14 x 60 by the proportion--200: 1.14 = grain of nitrogen. 2. By measurement as free Nitrogen.--When the nitrogen exists in the organic substance in the form of an oxide, as in nitrobenzene, C, H6(N02), ethyl nitrite, C, H6(NO)0, etc., the preceding method cannot be employed, because these nitrogen oxides are not completely converted into ammonia by heating with alkaline hydrates: it fails also in the case of certain organic bases. In such cases the nitrogen must be evolved in the free state by heating the organic body with copper oxide; and its volume determined by collecting it over mercury in a graduated jar. There are several ways...



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