



## Review of the American Standard Specifications, Test Pieces, and Methods of Testing Iron and Steel, Adopted by Committee No. 1 of American Section of the International Association for Testing Materials; With a Discussion

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By Albert Ladd Colby

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 download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1900 Excerpt: .tions iQ detail, are the ones most generally used in of Phosphorus. American steel works laboratories, for the determination of phosphorus in steel. (a). The Drown-Emmertson method. Time, thirty minutes. Accuracy, 0.002 . ( ). The Handy-Manby method. Time, ten minutes. Accuracy, 0.003 . (a). The Drown-Emmertson Method.--This method depends on the conversion of all the phosphorus, in a nitric acid solution of the steel, into orthophosphoric acid by means of potassium permanganate; the reduction of the manganese dioxide formed, by a small amount of sugar; and the precipitation of the phosphorus by ammonium molybdate. The yellow precipitate may be weighed as such; or preferably dissolved in ammonium hydroxide, the solution acidulated with sulphuric acid, and the molybdic oxide, forming a known proportion of the phosphomolybdate precipitate, reduced to molybdous oxide by passing the solution through a column of amalgamated zinc. and then

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