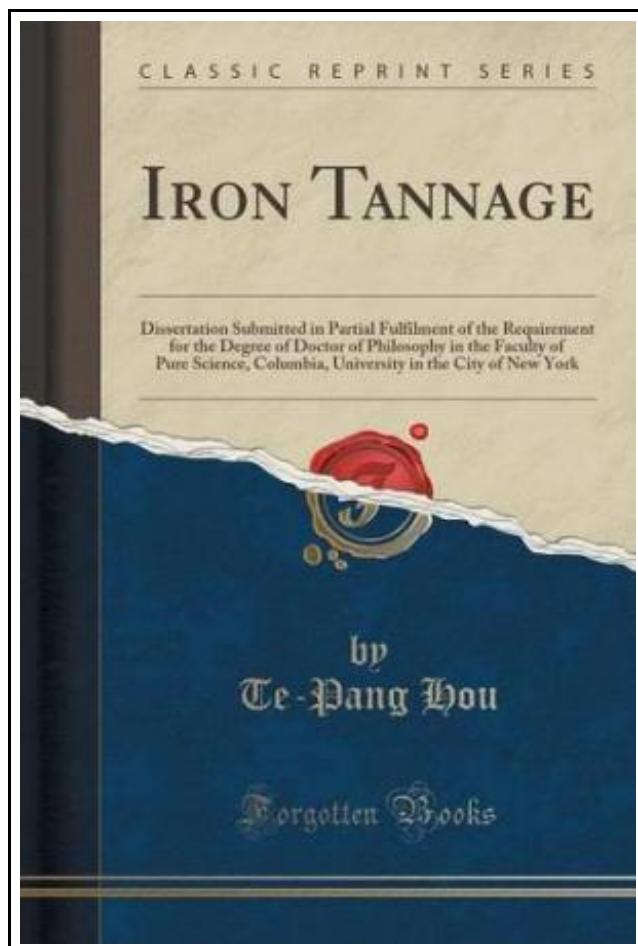


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Iron Tannage: Dissertation Submitted in Partial Fulfilment of the Requirement for the Degree of Doctor of Philosophy in the Faculty of Pure Science, Columbia, University in the City of New York As early as the latter half of the eighteenth century iron salts as tanning agents were proposed and experimented upon. From that time on attempt after attempt was made to obtain a satisfactory tannage with iron, but without material results. Different experimenters took up the matter with renewed enthusiasm, each cherishing a hope of thereby revolutionizing the tanning industry, but plants running on such processes were unsuccessful. When it is considered that next to alum, iron compounds were among the first inorganic salts introduced for mineral tannage, it may be realized how far iron tannage has fallen behind that of chrome and even of alum tannage at the present time. Diversified reasons have been given by different investigators to account for the unsatisfactory products obtained. No doubt, while some of these represent true causes responsible for the failure, much is due to a lack of understanding of the peculiar properties of the iron salts rather than to the intrinsic character of iron. It has been our object to make a study of iron tannage and to determine wherein the difficulties lie and how they may be met. True to the general trend of the Periodic Table, aluminum with the lowest atomic weight is the most acidic, while iron having the highest atomic weight is the most basic, with chromium lying in between. This accounts for some of the differences in the behavior of the three elements as tanning agents. But there seem to be,...

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