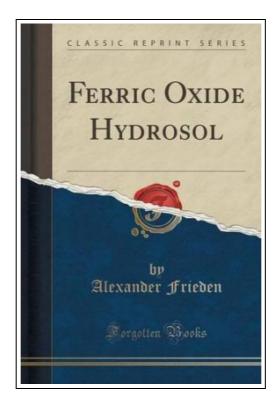
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Reviews

It in a of the best book. Indeed, it really is play, nevertheless an amazing and interesting literature. It is extremely difficult to leave it before concluding, once you begin to read the book.

(Sofia Yundt)

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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 Ferric Oxide Hydrosol The history of ferric oxide hydrosol may be divided into three periods: (1) 1827 to 1855, (2) 1855 to 1909, and (3) 1909 to the present time. The reports by Berzelius, Maus, Souberain, Rose, Schon-bein, and Schorer, during the first period, showed that they regarded colloidal ferric oxide as a definite chemical compound of iron. The second period starts with the discovery of Pean de St. Gilles that when ferric acetate solution was heated on a water bath for four or five hours, the red solution became turbid by reflected, while clear to transmitted light. A trace of alkali or sulfuric acid precipitated all of it in the form of a red brown residue, insoluble in concentrated, but soluble in dilute acid. The acid precipitate when dried on a porus plate, turned dark brown. In this condition it was still readily soluble in water but it lost this property after being thoroughly dried. Scherer Kastner prepared a similar colloidal ferric oxide by plunging test tubes containing dilute solutions of ferric nitrate into boiling water, and Debray obtained a similar hydrosol upon heating dilute solutions of ferric chloride. Wiedemann showed that any solution of a ferric salt contains some colloidal oxide in it; and recently Wagner showed that a 1-400 equivalent normal solution of ferric chloride hydrolyzes completely to colloidal ferric oxide and hydrochloric acid in 40 minutes at 25. Collodial ferric oxide was regarded by these early scientific workers as a modification of ferric hydroxide, but all the early attempts to determine the nature and composition of the substance were doomed to failure because in all cases the substance formed contained...



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