



Ferric Oxide Hydrosol (Classic Reprint) (Paperback)

By Alexander Frieden

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...



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