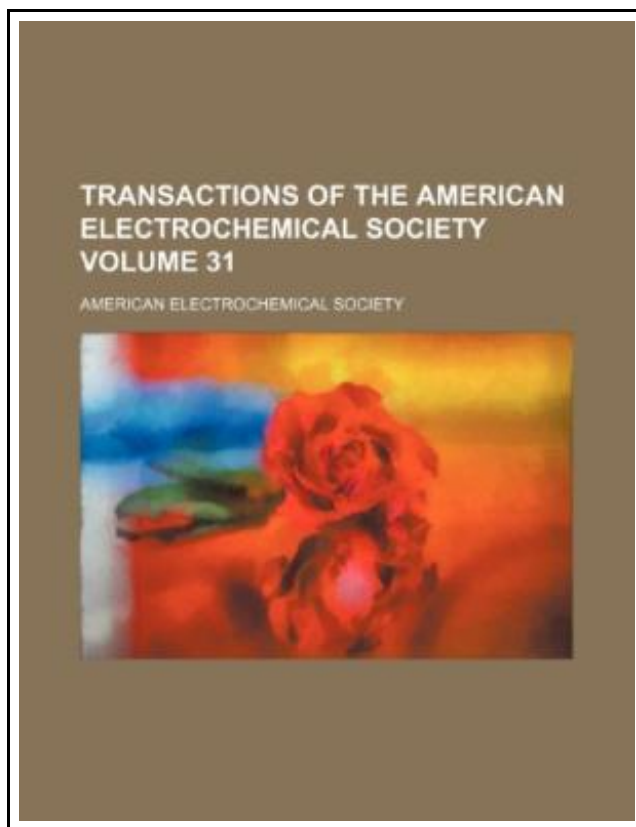


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1917 Excerpt: .or in water. There were no tests under atmospheric conditions. D. L. Mathias: I have found, in my experiments on. acid corrosion of iron and its alloys, that an addition of from one-quarter to three-quarters percent of chromium will greatly increase the acid-resisting qualities of cast iron. Chromium favors the formation of cementite, which offers considerable resistance to corrosion. The Relative Corrosion of Wrought Iron, Soft Steel, and Nickel Steel. International Congress on Testing Materials of Construction, Paris, 1900; Engineering and Mining Journal, August 18, 1900. J. W. Richards10: Dr. Hering has remarked that the silicon in the cast iron may be a protecting agent, which preserves it from corrosion, and I think that probably strikes at the root of the problem. In Mr. Kowalke s paper, discussed previously, it was shown that an alloy containing 2.5 percent silicon corroded much slower than a specimen with 1.2 percent silicon; an increase of 1.3 percent of silicon diminished the corrosion 70 percent. I believe the electrolytic theory as explained by Mr. Badger also explains very clearly the reason for the protective action of the silicon. Hydrated silica is formed by electrolytic action, which forms a blanket or coating, and protects the metal from further action. In the case of copper in steel, we should always take into account the fact that an oxide coating formed of iron and copper oxides is probably more resistant to further corrosion or to solution than plain simple oxide of iron. Messrs....



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