



Applied Electrochemistry and Metallurgy: A Practical Treatise on Commercial Chemistry, the Electrical Furnace, the Manufacture of Ozone and Nitrogen by High-Tension Discharges, and the Metallurgy of Iron, Steel, and Miscellaneous Metals (Classic Reprint)

By Charles F Burgess

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Applied Electrochemistry and Metallurgy: A Practical Treatise on Commercial Chemistry, the Electrical Furnace, the Manufacture of Ozone and Nitrogen by High-Tension Discharges, and the Metallurgy of Iron, Steel, and Miscellaneous Metals The principles of Electrochemistry are almost as old as the science of electricity itself. The phenomenon of electrolysis was discovered in 1800, and its laws were experimentally determined by Faraday in 1833; again the electrolytic cell, with its simple electrodes and conducting liquid, was very early used to accomplish the dissociation of chemical compounds in the same manner as it is now used in chemical industries; the electric furnace was really discovered almost simultaneously with the arc lamp and in its essentials is identical with it. The cheapening of electrical power and the increased use of the products involved have been largely responsible for the progress along these lines, and, today, the preparation of electrolytic copper is a great industry; hydrogen and oxygen gases are now obtained by the electrolytic decomposition of water; and the method of electrolyzing fused aluminum oxide has brought the...



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