



Proceedings of the Electrical Society of Cornell University Volume 2

By Electrical Society of University

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. 1895 edition. Excerpt: .agreement with the results of experiment. The voltaic cell is looked upon as a machine run by osmotic pressure. In the case of the gravity cell, for example, the action may be looked upon as resulting from the fact that the solution tension of Zn is greater than that of Cu. The Zn therefore continually goes into solution, replacing the Cu which is deposited. Positive electricity is carried away from the Zn electrode by the Zn ions, and given up to Cu pole by the Cu ions, thus setting up a current. Unless the circuit is closed, this current is only temporary, for + and-- charges developed upon the Cu and Zn poles respectively, lead to polarization, and soon neutralize the tendency for further solution by their electrostatic forces. A knowledge of the solution tensions of the metals, and of the nature and concentration of the...



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