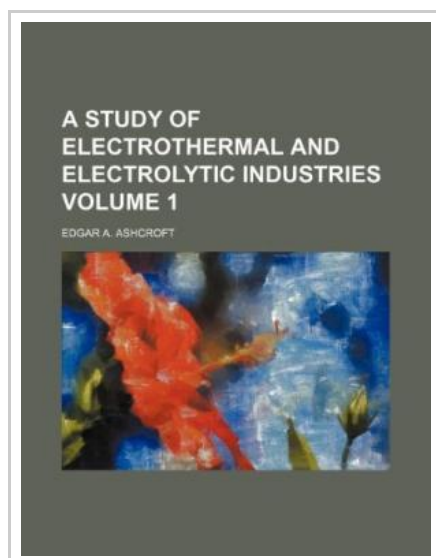




A Study of Electrothermal and Electrolytic Industries Volume 1 (Paperback)

By Edgar A Ashcroft

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. 1909 Excerpt: .rate of heat radiation from a furnace is dependent on many indeterminate conditions, and also varies greatly with the temperature, it will usually be found most practical to determine such questions of radiation or convection losses as usually arise, largely by experiment. In all cases, however, a balance sheet of the thermal energy of the reactions and of the end products can be advantageously drawn up. The heating power of any given current may be calculated according to the formula $H \text{ (cal. per sec.)} = C^2 \text{ (amp.)} \times R \text{ (ohms)} \times .24 \text{ (joules to cal.)}$ plus or minus the absorption, or liberation, of heat energy, corresponding to the chemical reactions occurring, and the specific heats, latent heats, etc., of the raw materials, wastes, and finished products. The resistance of a furnace or bath is not often accurately known beforehand, but may be postulated with accuracy from the...



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