



Metallurgy; A Brief Outline of the Modern Processes for Extracting the More Important Metals (Paperback)

By Wilhelm Borchers

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. 1911 Excerpt: .carbon. This reduction of the NiO was first accomplished by the method of Fleitmann, who fused with Mg, which is an extremely energetic reducing agent; then Basse and Selve accomplished the same end by mixing in as much as 3 of MnO₂ before carrying out the reducing roast. The MnO₂ is reduced, together with the NiO, and serves to remove the NiO when the cube nickel is heated in carbon-free crucibles; naturally it prevents the formation of NiO by atmospheric oxygen when the metal is melted. Electrolysis is employed if the nickel contains precious metals. Since the solution tension of Ni is on the other side of H, the concentration of H ions must be kept as low as possible, contrary to the practice in the electrolytic refining of Cu. This is accomplished by limiting the amount of free acids having high dissociation constants (HCl, H₂SO₄)...



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