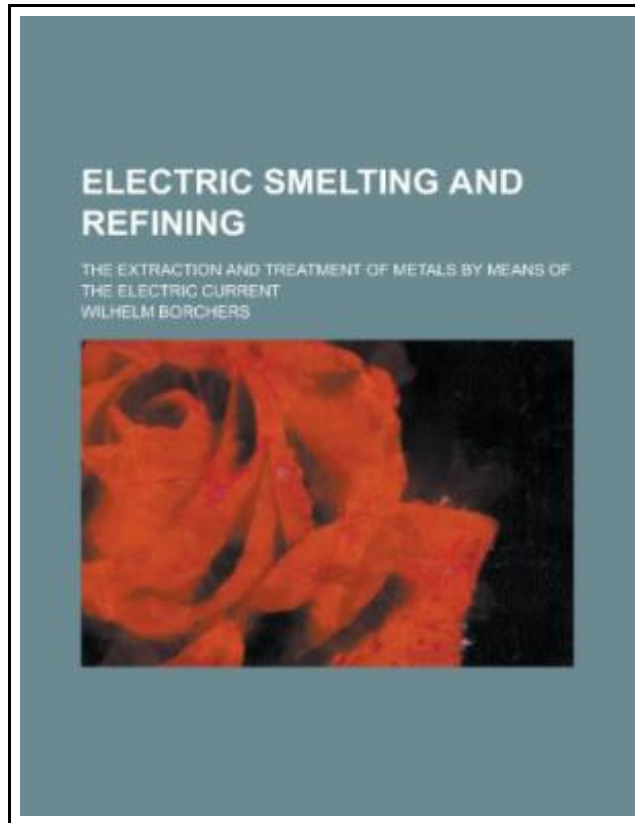


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Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1904 edition. Excerpt: .a distinct tinge of yellow. No tarnish or specks of oxide were visible, and the metal showed no loss whatever when heated to redness in a current of dry hydrogen which had been previously purified by passing over a roll of red-hot iron wire gauze. This proved that the electro-deposited nickel had been entirely metallic in character. German Patent 81,888, Aug. 15, 1894; cf. Zeittkrift fir Eltktroclitmie, 1895-6, vol. ii., p. 197. t Zeitfchrift fiir anonjaitifche Chemie, 1895, vol. viii. For the production of cobalt, a pure sulphate of cobalt, mixed with ammonium sulphate, was prepared by heating purple cobaltic chloride with sulphuric acid. The aqueous solution of this contained 11 64 grms. of cobalt per litre; and the electrolyte was made up as follows: --100 c.c. cobalt sulphate solution. 30 grms. ammonium sulphate. 30 grms. ammonia (of 0 905 sp. gr.). 500 c.e. water. The cathode was a platinum plate 94 cms. long by 5 9 cms. wide, and a similar platinum plate served as anode. The strength of current was 0-7 ampere at 3 volts, and the currentdensity D100 = 0-6 ampere. The deposited cobalt weighed 8-133 grms., of which 7-319 grms. separated from the cathode in the form of a coherent and fairly strong plate. The metal was brightly lustrous on the side next to the platinum, but on the other side it was dull and grey; it was not tarnished, however, and showed but little oxide. On heating in pure...

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