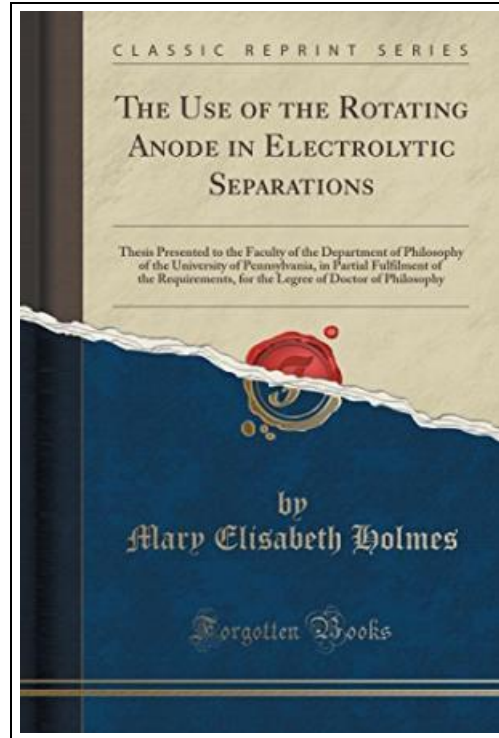


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from The Use of the Rotating Anode in Electrolytic Separations: Thesis Presented to the Faculty of the Department of Philosophy of the University of Pennsylvania, in Partial Fulfilment of the Requirements, for the Legree of Doctor of Philosophy This investigation was undertaken for the purpose of proving whether satisfactory separations of metals could be made with the rotating anode, using low currents. Many separations with stationary electrodes have been made with low currents, but with the rotating anode, high currents of from three to five amperes have been employed. The largest contribution to the subject of metal separations, using the rotating anode, was made by Ashbrook in 1904 (Journal of the American Chemical Society, 26, 1285). All his work was done with high currents, five amperes being generally used. A few separations were later recorded by Miss Langness (Thesis, 1906), in which low currents and rotation were successful. Silver was separated from copper, nickel, platinum or zinc, using the cyanide electrolyte, the current ranging from 0.25 to 0.4 amperes. The analysis of a coin, as performed by Miss Langness, was made possible by the fact that silver could be deposited completely by such a low current as 0.4 ampere, while the copper required a much higher current. The time given to these silver separations was about twenty minutes. These results would seem to indicate the possibility of obtaining other separations with low currents in comparatively short periods of time. Criticism of the rapid methods of electrolytic work has often been made to the effect that while the methods employed may be adequate for the determination of single metals, the introduction of more than one metal into...

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