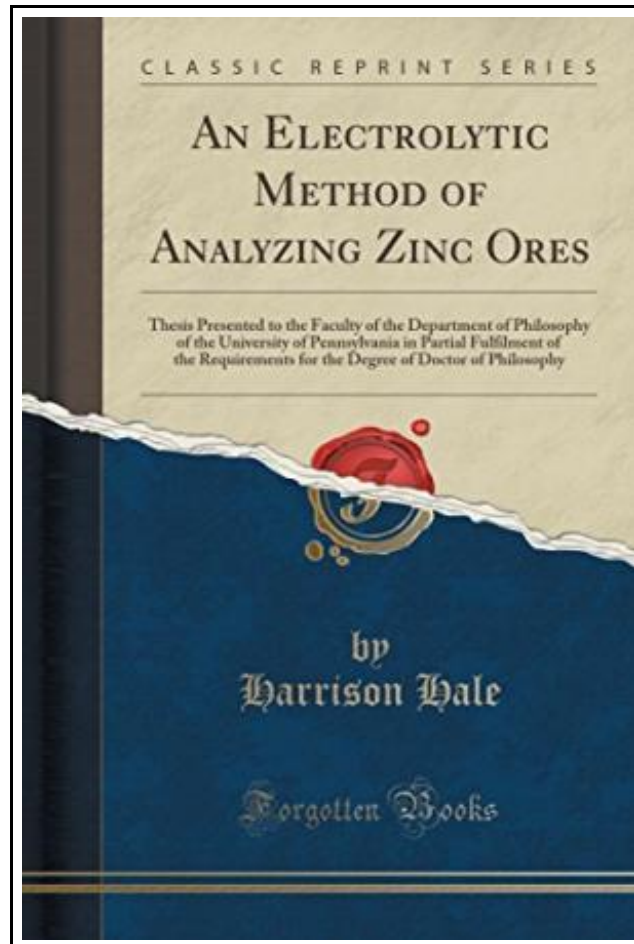


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from **An Electrolytic Method of Analyzing Zinc Ores: Thesis Presented to the Faculty of the Department of Philosophy of the University of Pennsylvania in Partial Fulfilment of the Requirements for the Degree of Doctor of Philosophy** The application of electro-analysis with its accuracy, its cleanliness and its ease of execution to the determination of mineral constituents has obvious advantages. This has long been recognized. More than thirty years ago Parodi and Mascazzini (1) published a method for the determination of zinc by adding an excess of ammonium acetate to a solution of its sulphate; this method was recommended for use in the analysis of zinc ores. In 1902 Edgar F. Smith (2) after expressing confidence that electrolytic methods would prove wholly satisfactory on application to natural products gives results of the determination of zinc in a pure blende, using a sodium acetate electrolyte, the zinc being present as sulphate. The introduction of the rotating anode with zinc solutions by Exner (3), greatly increasing the advantages of the electrolytic method has made an imperative demand for further work along this line. With these facts in view a study of zinc blende was undertaken with the purpose of obtaining not only a method for the determination of the metal but also of the sulphur content of the mineral. The results have shown that both may be determined with ease from the same sample and in a shorter time than by any other satisfactory process. Attention has also been given to the form of electrodes, especially the cathode, best suited for this determination. Further work was then done to test the general applicability of the method for determining the...



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