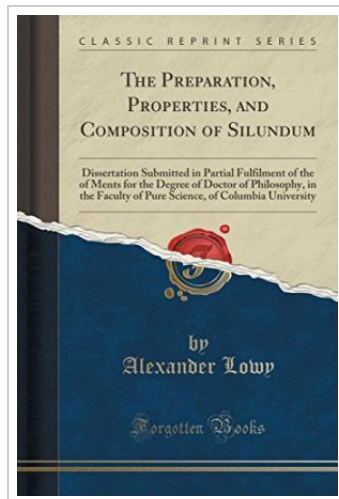




The Preparation, Properties, and Composition of Silundum: Dissertation Submitted in Partial Fulfilment of the of Ments for the Degree of Doctor of Philosophy, in the Faculty of Pure Science, of Columbia University (Classic

By Alexander Lowy

Forgotten Books, United States, 2015. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from The Preparation, Properties, and Composition of Silundum: Dissertation Submitted in Partial Fulfilment of the of Ments for the Degree of Doctor of Philosophy, in the Faculty of Pure Science, of Columbia University Silundum is a product of the electric furnace, and was discovered by Bolling, at Frankfort-on-the-Main, Germany. As early as 1900 he began the study of the use of the various silicon carbides as resistors, being led to this work by the fact that these carbides can be subjected to high temperatures without undergoing decomposition. His method was to mix the silicon carbide powder with various binders in order to hold the individual particles together. The mass is a non-conductor at low temperatures, but at about 700 - 800 C. it becomes conductive, thus being useless at a higher temperature. By 1904 a process was worked out and patented by which it is possible to convert any piece of carbon, e. g., a crucible, brick, rod, etc., into silicon carbide. By this method resistors without any binding material are obtained, which will stand temperatures as high as 1650...



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