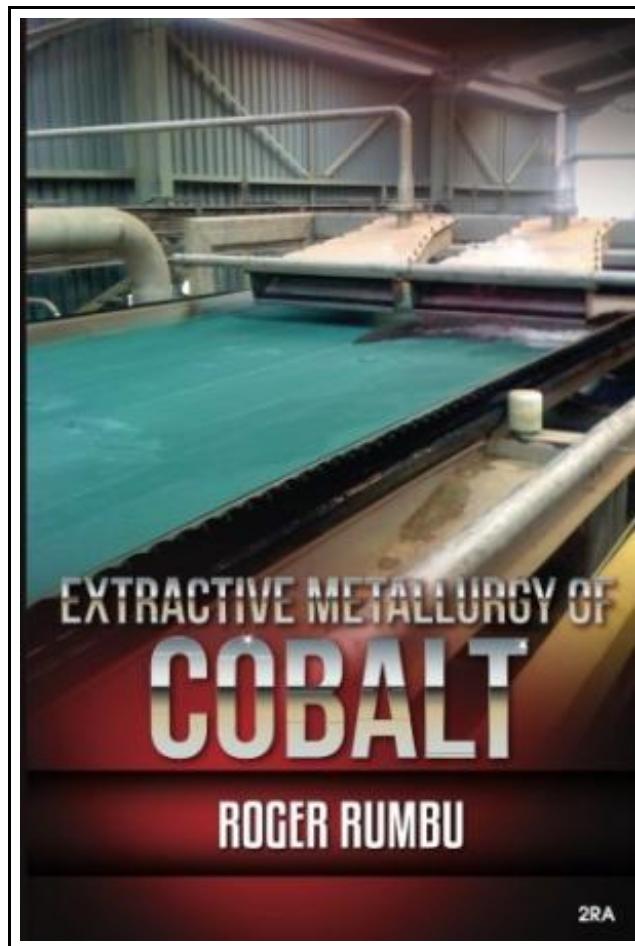


## Extractive Metallurgy of Cobalt (Paperback)



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Createspace Independent Publishing Platform, 2016. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. As the title suggests this book focuses on the extractive metallurgy of cobalt which is rarely treated in a comprehensive manner as cobalt and cobalt-compounds are typically by-products of nickel and copper production. Introductory chapters cover history, mineralogy, chemical properties as well as reserves and production statistics. Chapter 4 (Cobalt Hydrometallurgy) is one of the main chapters that includes the leaching behaviour of the element with respect to the form of cobalt feed highlighting the importance of oxidation-reduction reactions. There are references to leaching kinetic models and relevant chemical thermodynamic considerations along with a number of examples of industrial process flow diagrams. Impurity precipitation and solvent extraction are also included in this chapter in a similar style with examples of processing equipment. Chapter 5 is a relatively brief chapter about cobalt-compound product precipitation ending with a summary table qualitatively ranking eight process features. Chapters 6 and 7 address the electrowinning and electrorefining of cobalt respectively. Important fundamental and applied considerations are covered. Chapter 8 is on the pyrometallurgy of cobalt with some description of hydrometallurgical refining options at the end. As with the hydrometallurgy chapter, a number of industrial flow diagrams are provided which is helpful. Chapter 9 is about the final uses for cobalt which is shifting with increasing application for cobalt containing batteries. The Metallurgie Extractive du Cobalt provides a good overview of cobalt from the primary sources to end-use with an emphasis on the metallurgical processing options of which there are quite a few. It is most relevant to metallurgical engineers interested in process development. I appreciated the insight provided into the African scene and picked up some useful references from the citations. Dr James Vaughan, Senior Lecturer in...

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