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PAGES: 0-0

ORIGINAL PDF URL: <https://dergipark.org.tr/tr/download/article-file/401522>



Bio-Oxidation Operation Parameters of Handling Optimization Outer Mining

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Received: 27 June 2012; Accepted: 03 August 2012

Abstract

China is a extensive resources country, but years of continuous exploitation make resources exhausted, the easy treated goldmine just like them. According to the study, the relativity domestic refractory gold resources is about 1,000 - 1,200 tons (about 1/3 of the proven reserves), which is mainly distributed in the southwest, northwest and northeast of China. There have been three main ways to treat with goldmine so far in our country . Apart from traditional baking and elevated temperature and pressure oxidation, bio-oxidation technology is a nice choice as well. That technology has been applied successfully in many fields. Moreover, the bio-oxidation pretreatment technology has been formally put into use since 2000. With more than a decade's development, that treatment has become a significant way to deal with the problem of gold extraction in goldmine in our country. However, the technology does not have an effective theory to set parameters for high-altitude alpine region to treat goldmine.

Keywords: Bio-oxidation; Operation parameters; Handling optimization; Outer mining