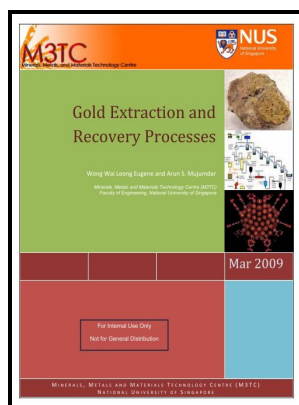


The extraction of gold from bioleached pyrite using novel thiourea leaching technology

Australasian Institute of Mining and Metallurgy - US5260040A



Description: -

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Notes: 13

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New approaches for extracting and recovering metals from mine tailings

The process of claim 63, wherein in the contacting step i, at least most of the solubilized precious metal is precipitated by reaction with the sulfide-containing reagent. Resin elutions are also simplified as little, if any copper, is on the resin.

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Consequently the iron III ions have to be within this distance from the pyrite surface to be reducible by tunneling electrons.

Surface Oxidation of Pyrite as a Function of pH

As will be appreciated, the resin can be regenerated by acid washing the resin with an acid such as nitric acid or hydrochloric acid. Separation and Purification Technology 2020, , 117022. Journal of Hazardous Materials 2021, 404 , 124175.

Thiourea Leaching of Gold and Silver — Technology Update and Additional Applications

The thiosulfate reagent is selected from the ammonium and alkali metal salts. In addition, recent fundamental contributions are discussed. Thickening 116 will generally not be required if the desired pulp density after wet comminution or formation of the comminuted material into a slurry is less than about 20%.

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