

### 论文摘要

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### 硫酸溶液硫化沉砷过程及磁场对沉砷的影响

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**摘 要:** 由硫酸溶液硫化沉砷过程中氧化-还原电势的变化, 讨论硫化沉砷过程, 同时研究磁场效应对沉砷过程电势变化及溶液含砷的影响, 认为磁场效应在一定条件下有益于提高砷的沉降速度和净化程度。

**关键字:** 磁场效应 硫化 沉砷

### THE PROCESS OF SULFIDE PRECIPITATION OF ARSENIC IN SULFURIC ACID SOLUTION AND EFFECT OF MAGNETIC FIELD

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**Abstract:** The process of sulfide precipitation of arsenic in sulfuric acid solution was investigated by observing the changes of oxidation-reduction potential in solution. It was also investigated that the magnetic field affected the potential changes and the content of arsenic in solution during the process of arsenic precipitation, in addition the function of magnetic field effect was examined. It was concluded that the magnetic field effect is beneficial to the rate of arsenic precipitation and the purification under certain conditions.

**Key words:** magnetic field effect sulfidation precipitation of arsenic

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