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Control of the Ore Enrichment and Zinc Oxide Dissolution Processes by Potentiometric Monitoring

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Abstract

Potentiometric methods were developed for on-line monitoring of thiosulfate ion during aeration of polymetallic sulfide ore and zinc ion during the dissolution of zinc oxide. Mechanisms were proposed for these processes and verified by comparing electrochemical data with chemical analysis obtained by titrating the respective species in solution. Experimental and theoretical results were within 10%.