



Beneficiation of phosphates : new thought, new technology, new development /

Zhang, Patrick

Miller, J. D.

El-Shall, Hassan E.

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Monografía

Fueled by climbing food prices, the demand for fertilizers is on the rise. The phosphate industry is responding aggressively by bringing significant projects on line across the globe. But meeting this unprecedented demand comes with a host of challenges: Environmental lawsuits have put a stop to one of the largest phosphate mines in the world. Other operations are closing because of the depletion of phosphate reserve. The increasing proportion of high organic and high dolomite ores has caused beneficiation costs to skyrocket. There is a growing urgency for the sustainable development and recycling of phosphate resources. *Beneficiation of Phosphates: New Thought, New Technology, New Development* provides a comprehensive look into how industry leaders and the R & D community are responding to these and many other critical issues

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Contenido: Part 1: Theory and Applications. Polymers at Mineral Interfaces; A Pilot-Scale Study of Effects of Nanobubbles on Phosphate Flotation; Effect of Ca²⁺, Mg²⁺, PO₄³⁻, and SO₄²⁻ on the Flotation of Phosphate; Research on the Adsorption Mechanism of a Mixed Collector on Middle-Low Grade Phosphate at Ambient Temperature; Effect of Bias Flow on Flotation Efficiency in a Packed Column; Relations Between MgO Occurrence in Phosphorite and Its Removal by Flotation Process -- Part 2: Innovations and Control. Magnetic Column Flotation for Magnetite Removal from a Brazilian Phosphate Ore; Column and Non-Conventional Flotation for Phosphate Recovery; On-Line Laser Induced Breakdown Spectroscopy (LIBS) Analysis in the Phosphate Industry; Study of a Calcium-Silicon Phosphate Rock Separated by the Column-Machine Combined Process; Application of JKSimMet Simulation Models for Energy Reduction of Large-Scale Grinding Circuits; Beneficiation Improvements

Through Automatic Controls; Effect of Basic Factors on Florida Phosphate Beneficiation Performances -- Part 3: Acidulation and Hydrometallurgy. An Approach Toward Flotation Reagents Optimization and Foam Phenomena Management in Phosphoric Acid Production; Recovery of Uranium from Phosphoric Acid: History and Present Status; Recent Developments in Beneficiating Chilisai Phosphate Ore; Recovery of Rare Earths from Phosphogypsum; Toxic Trace Elements Composition of Eranbee Phosphate Deposits, Central Jordan: Possible Environmental Implications -- Part 4: Characterization and Analysis. Advanced Instrumentation for Mineral Liberation Analysis and Use in the Phosphate Industry; Process Mineralogy Studies of Yichang Phosphate Ores; Multi-Scale Characterizing of Mineralogical and Textural Features of Mid-Low-Grade Sedimentary Phosphate Rocks; Hydroxyapatite with Different Morphologies Prepared by Natural Collophanite; Exploring the Use of Rheology in the Phosphate Industry; Characterization of Carbonated Hydroxyapatite Whiskers Prepared by Hydrothermal Synthesis -- Part

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Autores: Zhang, Patrick Miller, J. D. El-Shall, Hassan E.

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Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es