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## Phosphoric Acid and Phosphate Fertilizers - Volume I: State of the Art and Future Trends (Paperback)

By Mohamed Ibrahim Elgafi

Pacific Academic Press, 2017. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. It s the first and only book of its kind to cover the far-reaching environmental impact of the phosphate industry. PHOSPHORIC ACID AND PHOSPHATE FERTILIZERS is an experience-based review of recently developed sulfuric acid manufacturing techniques -- aimed at students, professionals and new aspirants/entrants to the industry. With over 55 years experience in the phosphorous industry, Mohamed I. Elgafi, encapsulates a variety of thrilling, recent advances, such as: - The effects of solid, liquid, gas and radiation pollution; - Fluorides, heavy metals, uranium, rare earth metal issues and recovery; - Futuristic trends in mining, mineral processing, phosphoric acid and phosphate production; - Phosphoric acid industry corrosion; - Time-tested and preferred materials of construction for manufacturing, storage, handling, and selection criteria; - Recycling technologies and sustainability aspects of non-renewable phosphorus needed to maintain the biological integrity of humans and animals; - Simulation, optimization, data science applicability and functionality in the industry; - Energy consumption in a phosphoric acid production complex; - Description of premium equipment provided by world-class builders; - Phosphate chemistry, phosphate rocks, world resources and reserves, plus production and price data....



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