Singh / Kumar

Slurry Erosion

Flow Phenomenon, Complexities, and Protection Methods

Slurry Erosion: Flow Phenomenon, Complexities, and Protection Methods presents the necessary fundamentals to understand slurry flows and erosion phenomenon. It describes the complexities in the critical assessment on minimizing erosion and the process of selecting an appropriate protection technique. Addressing new technologies for modeling and achieving reduction in slurry erosion with optimized design, the book highlights how CFD simulations and AI techniques are used to predict slurry erosion. It explores the application of slurry erosion in various industries, such as thermal power plants, hydropower plants, mining, chemical and food processing, and offshore structures. The chapters cover various problems in slurry erosion including head loss, erosion-corrosion, erosion-abrasion, leakage flow, puncture point failure, and leaching. This resource is intended to support researchers and graduate students studying slurry erosion, surface engineering, tribology, erosion and corrosion prevention.

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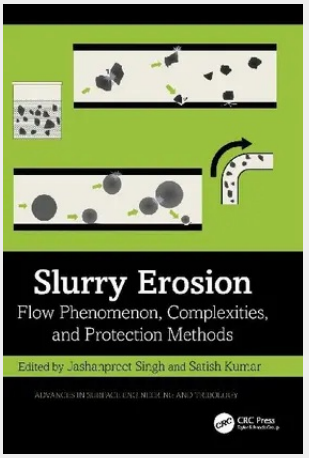

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