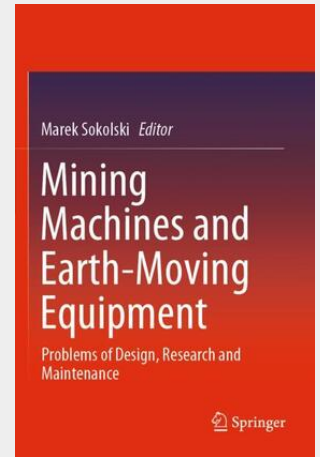


Sokolski

Mining Machines and Earth-Moving Equipment

Problems of Design, Research and Maintenance

This book presents central problems in the design, research and maintenance of large-size mining machines for open pits, mobile earth-moving machinery, hydraulic hammers for mining and civil engineering, and screening processes for bulk materials. It brings together the insights of numerous respected academics to offer a thorough and multifaceted overview of the topic. The first few chapters of the book deal with specific problems that frequently occur in machinery for open-pit mining. They focus on the resilience of large-size mining machines, degradation of steels used for supporting structures, and modelling of large-size rotary joints, as well as the noise hazards in connection with degradation processes. The book then moves on to discuss problems arising in earth-moving machinery, such as new approaches to the assessment of operation and maintenance, dynamic loads in front-end loader booms, and synchronic transfer of power from the engine to the driven wheels. The book concludes by discussing hydraulic hammers for mining and civil engineering, and screening processes for bulk materials that combine a vibroscreen with additional feed elements. The book is primarily intended for undergraduate and graduate mechanical engineering courses, but will also be of interest to researchers and mechanical engineers.



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