

MODELING AND SIMULATION OF MINERAL PROCESSING SYSTEMS



MINEEKSHI AWASTHI

Modeling And Simulation Of Mineral Processing Systems

R. P. King, C. L. Schneider, E. A. King



Modeling And Simulation Of Mineral Processing Systems:

Modeling and Simulation of Mineral Processing Systems R. Peter King, 2012-12-02 Dr R Peter King covers the field of quantitative modeling of mineral processing equipment and the use of these models to simulate the actual behavior of ore dressing and coal washing as they are configured to work in industrial practice The material is presented in a pedagogical style that is particularly suitable for readers who wish to learn the wide variety of modeling methods that have evolved in this field The models vary widely from one unit type to another As a result each model is described in some detail Wherever possible model structure is related to the underlying physical processes that govern the behaviour of particulate material in the processing equipment Predictive models are emphasised throughout so that when combined they can be used to simulate the operation of complex mineral processing flowsheets The development of successful simulation techniques is a major objective of the work that is covered in the text Covers all aspects of modeling and simulation Provides all necessary tools to put the theory into practice [Modeling and Simulation of Mineral Processing Systems](#) R. P. King, C. L. Schneider, E. A. King, 2012 The simulator is an important part of the book Almost all of the models described are not amenable to normal mathematical solutions or easy computation using calculators or spreadsheets The simulation techniques done with ModSim allow complex problems to be tackled with minimal time and expense *Modeling and Simulation of Mineral Processing Systems* Mineekshi Awasthi, 2015 The field of quantitative modeling of mineral processing equipment and the use of these models to simulate the actual behavior of ore dressing and coal washing as they are configured to work in industrial practice The material is presented in a pedagogical style that is particularly suitable for readers who wish to learn the wide variety of modeling methods that have evolved in this field The models vary widely from one unit type to another Wherever possible model structure is related to the underlying physical processes that govern the behaviour of particulate material in the processing equipment Predictive models are emphasised throughout so that when combined they can be used to simulate the operation of complex mineral processing flow sheets The development of successful simulation techniques is a major objective of the work that is covered in the text **Wills' Mineral Processing Technology** Barry A. Wills, 2011-04-18 Wills Mineral Processing Technology provides practising engineers and students of mineral processing metallurgy and mining with a review of all of the common ore processing techniques utilized in modern processing installations Now in its Seventh Edition this renowned book is a standard reference for the mineral processing industry Chapters deal with each of the major processing techniques and coverage includes the latest technical developments in the processing of increasingly complex refractory ores new equipment and process routes This new edition has been prepared by the prestigious J K Minerals Research Centre of Australia which contributes its world class expertise and ensures that this will continue to be the book of choice for professionals and students in this field This latest edition highlights the developments and the challenges facing the mineral processor particularly with regard to the environmental problems posed in improving the efficiency of the

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