

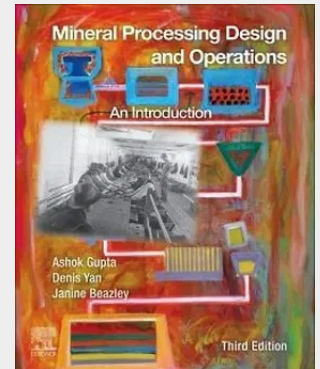
Mineral Processing Design and Operations

An Introduction

Mineral Processing Design and Operations: An Introduction, Third Edition outlines methods commonly used in mineral beneficiation and concentration processes. The book balances fundamental theoretical operational principles and practical explanations of the design and operation of apparatus and equipment. The basics of process controls for efficient and economic modes of separation are also introduced. The book covers the theory and formula for unit capacities and power requirements to help designers develop the necessary equipment and flowsheets to economically attain maximum yield and grade. Application of the theory to practice is explained at each stage, helping operators understand associated implications in each unit process. This fully updated third edition features updates on key areas within the field such as the properties of slurries and tailings waste management, as well as the increasing importance of sensor-based ore sorting options to improve efficiency and sustainability. It aims to help students, practicing engineers and operators who are interested in processing minerals to economically liberate and concentrate them for down-stream extraction processes. It also remains a valuable text for professional engineers working in industry given its breadth of coverage.

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