



# Introductory Mining Engineering

By Howard L. Hartman, Jan M. Mutmansky

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## Introductory Mining Engineering By Howard L. Hartman, Jan M. Mutmansky

An introductory text and reference on mining engineering highlighting the latest in mining technology

Introductory Mining Engineering outlines the role of the mining engineer throughout the life of a mine, including prospecting for the deposit, determining the site's value, developing the mine, extracting the mineral values, and reclaiming the land afterward. This Second Edition is written with a focus on sustainability-managing land to meet the economic and environmental needs of the present while enhancing its ability to also meet the needs of future generations. Coverage includes aboveground and underground methods of mining for a wide range of substances, including metals, nonmetals, and fuels. Completely up to date, this book presents the latest information on such technologies as remote sensing, GPS, geophysical surveying, and mineral deposit evaluation, as well as continuous integrated mining operations and autonomous trucks. Also included is new information on landscape restoration, regional planning, wetlands protection, subsidence mitigation, and much more.

New chapters include coverage of:

- \* Environmental responsibilities
- \* Regulations
- \* Health and safety issues

Generously supplemented with more than 200 photographs, drawings, and tables, Introductory Mining Engineering, Second Edition is an indispensable book for mining engineering students and a comprehensive reference for professionals.

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### **Editorial Review**

#### **From the Publisher**

A beginning text and elementary reference book in mining engineering which adopts both a quantitative and a numerical approach. Provides in-depth treatment of the applications of mining engineering while reinforcing material with clear, complete analyses of special topics as well as numerical examples and problems. Initial chapters are devoted to fundamentals, explaining the four stages of mining -- prospecting, exploration, development, exploitation-- and the unit operations of mining. The text continues with coverage of surface mining and underground mining. Highlights novel methods and provides case studies, answers to selected problems, extensive references and bibliography, and both English and SI or metric units.

#### **From the Back Cover**

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#### **About the Author**

HOWARD L. HARTMAN, PhD, was Drummond Chair and professor of Mining Engineering at the University of Alabama in Tuscaloosa.

JAN M. MUTMANSKY, PhD, is Professor Emeritus of Mining Engineering at Pennsylvania State University in University Park. The authors also coauthored Mine Ventilation and Air Conditioning, Third Edition (with R. V. Ramani and Y. J. Wang), published by Wiley.

### **Users Review**

#### **From reader reviews:**

**Antonio Duncan:**

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**Paul Howard:**

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