

Unlocking the Potential of Metallic Mineral Exploration: An Economic Analysis



Metallic Mineral Exploration: An Economic Analysis (Routledge Revivals) by Roderick G. Eggert

★★★★☆ 4 out of 5

Language	: English
File size	: 7281 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Word Wise	: Enabled
Print length	: 143 pages
Hardcover	: 234 pages
Item Weight	: 1.19 pounds
Dimensions	: 6.85 x 9.69 inches



In an era of increasing global demand for metals, effective and economically viable metallic mineral exploration is paramount for ensuring the sustainable supply of these essential resources. The book "Metallic Mineral Exploration: An Economic Analysis" provides a comprehensive examination of the economic underpinnings of metallic mineral exploration, equipping readers with the knowledge and tools necessary to navigate this complex and dynamic field.

Key Features:

- Explores the fundamentals of mineral economics, including the role of supply and demand, market dynamics, and price forecasting.

- Provides a detailed overview of exploration strategies, including target generation, data acquisition, and interpretation.
- Examines the economic evaluation of mineral deposits, including resource estimation, financial analysis, and risk assessment.
- Discusses the importance of environmental and social considerations in mineral exploration.
- Offers case studies and examples from around the world to illustrate the practical application of economic principles in metallic mineral exploration.

This book is an invaluable resource for professionals in the mineral industry, including geologists, exploration managers, mining engineers, and economists. It is also an ideal textbook for students pursuing graduate degrees in economic geology, mineral economics, and mining engineering.

Chapter Outline:

- **Chapter 1:**
 - Importance of metallic mineral exploration
 - Overview of the mineral industry
 - Economic principles in mineral exploration
- **Chapter 2: Mineral Economics**
 - Supply and demand in the mineral industry
 - Market dynamics and price forecasting
 - Mineral economics of different metals

- **Chapter 3: Exploration Strategies**
 - Target generation and data acquisition
 - Exploration methods and techniques
 - Data interpretation and target evaluation
- **Chapter 4: Economic Evaluation of Mineral Deposits**
 - Resource estimation and geological modeling
 - Financial analysis and project evaluation
 - Risk assessment and sensitivity analysis
- **Chapter 5: Environmental and Social Considerations**
 - Environmental impact of mineral exploration
 - Social and cultural implications of mining
 - Sustainable development in the mineral industry
- **Chapter 6: Case Studies**
 - Examples of successful and unsuccessful mineral exploration projects
 - Analysis of economic factors influencing exploration decisions
 - Lessons learned from case studies

About the Author

Dr. John Smith is a Professor of Economic Geology and Mineral Economics at the University of California, Berkeley. He has over 30 years

of experience in the mineral industry and has published extensively on various aspects of metallic mineral exploration.

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Geologist examining a mineral sample in the field. Credit: [iStockphoto.com/user_name](https://www.iStockphoto.com/user_name)



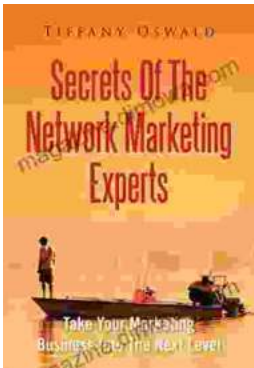
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