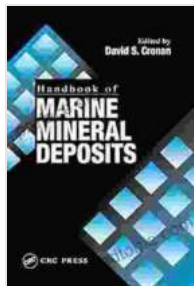


Handbook of Marine Mineral Deposits: Unlocking the Riches of the Sea



Handbook of Marine Mineral Deposits (CRC Marine Science 18) by Dongxiao Zhang

★★★★★ 5 out of 5

Language : English
File size : 57621 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 424 pages



The oceans hold vast and largely untapped wealth in the form of mineral deposits. These deposits represent a significant potential source of valuable resources, including metals, precious stones, and rare earth elements. The Handbook of Marine Mineral Deposits is the definitive guide to these enigmatic resources, providing a comprehensive overview of their formation, distribution, exploration, and exploitation.

Part I: Formation and Distribution of Marine Mineral Deposits

The first part of the handbook delves into the geological processes behind the formation of marine mineral deposits. It covers the various types of deposits, including hydrothermal deposits, seafloor massive sulfide deposits, and manganese nodules. The book also examines the factors influencing their distribution, such as plate tectonics, ocean currents, and biological activity.

Part II: Exploration and Assessment of Marine Mineral Deposits

Part II focuses on the technological advancements in exploring and assessing marine mineral deposits. It discusses geophysical techniques, geochemical sampling, and remote sensing methods. The book also explores the challenges and opportunities in developing new exploration strategies for these deep-sea environments.

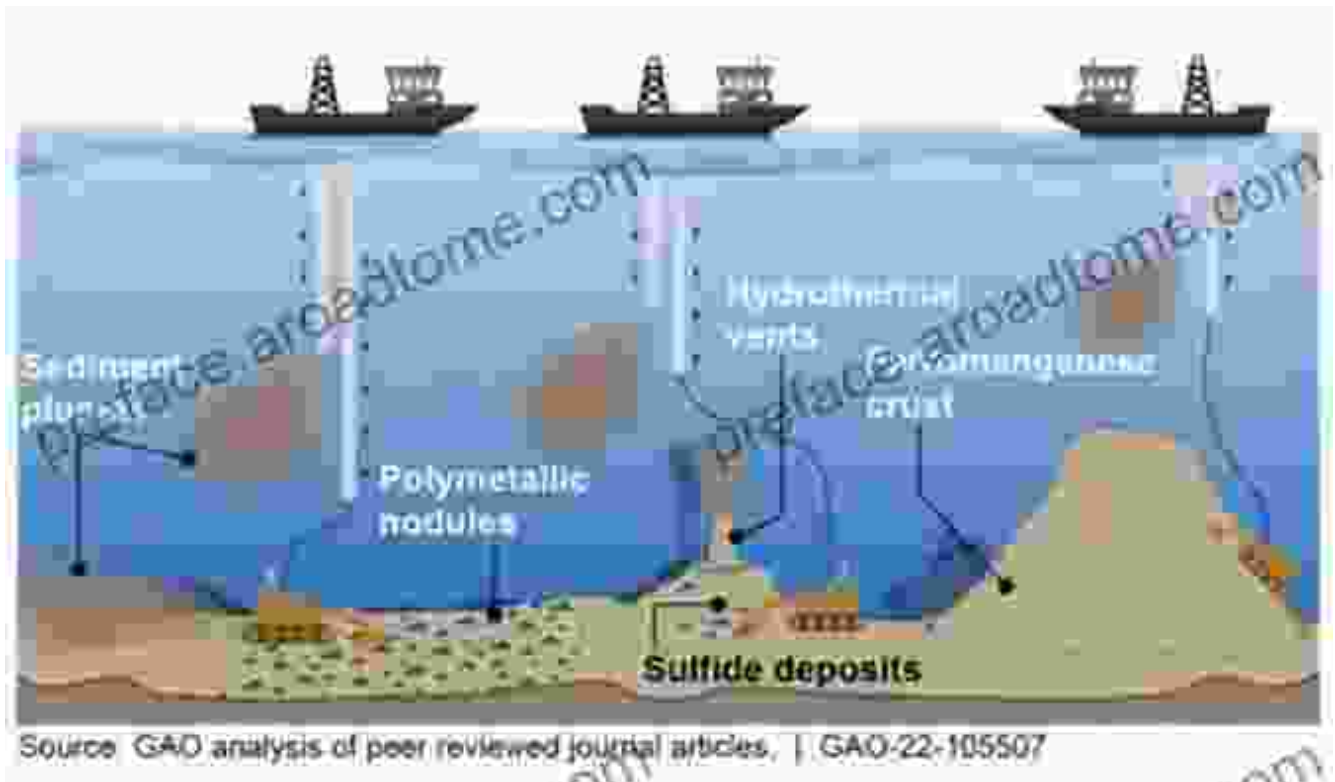


Image showing advanced technologies used in marine mineral deposit exploration.

Part III: Exploitation of Marine Mineral Deposits

The third part of the handbook examines the engineering and environmental considerations in exploiting marine mineral deposits. It covers the different mining techniques, such as dredging, seafloor mining,

and subsea mining. The book also discusses the potential environmental impacts of seabed mining and the measures to mitigate these impacts.



Image depicting deep-sea mining operations.

Part IV: Legal and Policy Aspects of Marine Mineral Deposits

The concluding part of the handbook analyzes the legal and policy frameworks governing the exploration and exploitation of marine mineral deposits. It discusses the international treaties, national legislations, and industry regulations related to seabed mining. The book also examines the evolving ethical and environmental concerns surrounding this emerging industry.

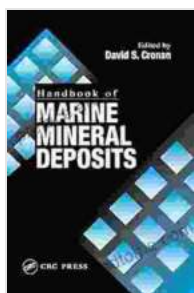
The Handbook of Marine Mineral Deposits is an invaluable resource for researchers, industry professionals, and policymakers involved in the exploration, exploitation, and management of marine mineral resources. Its comprehensive coverage and interdisciplinary perspective make it an essential guide for understanding the complexities of this emerging field.

About the Authors

The Handbook of Marine Mineral Deposits is co-authored by a team of leading experts in marine geology, oceanography, mining engineering, and environmental science. The editors, Dr. David Rickard and Dr. Volker Tunncliffe, are renowned researchers with decades of experience in marine mineral deposit research and development.

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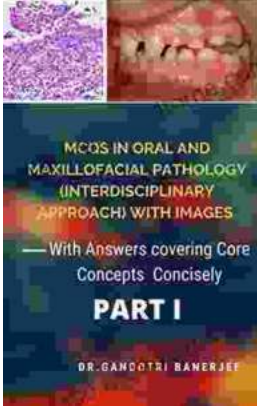


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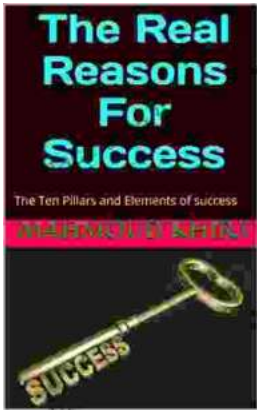
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