



# Acid Mine Drainage, Rock Drainage, and Acid Sulfate Soils: Causes, Assessment, Prediction, Prevention, and Remediation

By James A. Jacobs, Jay H. Lehr, Stephen M. Testa

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**Acid Mine Drainage, Rock Drainage, and Acid Sulfate Soils: Causes, Assessment, Prediction, Prevention, and Remediation** By James A. Jacobs, Jay H. Lehr, Stephen M. Testa

## Provides the tools needed to analyze and solve acid drainage problems

Featuring contributions from leading experts in science and engineering, this book explores the complex biogeochemistry of acid mine drainage, rock drainage, and acid sulfate soils. It describes how to predict, prevent, and remediate the environmental impact of acid drainage and the oxidation of sulfides, offering the latest sampling and analytical methods. Moreover, readers will discover new approaches for recovering valuable resources from acid mine drainage, including bioleaching.

*Acid Mine Drainage, Rock Drainage, and Acid Sulfate Soils* reviews the most current findings in the field, offering new insights into the underlying causes as well as new tools to minimize the harm of acid drainage:

- **Part I: *Causes of Acid Mine Drainage, Rock Drainage and Sulfate Soils*** focuses on the biogeochemistry of acid drainage in different environments.
- **Part II: *Assessment of Acid Mine Drainage, Rock Drainage and Sulfate Soils*** covers stream characterization, aquatic and biological sampling, evaluation of aquatic resources, and some unusual aspects of sulfide oxidation.
- **Part III: *Prediction and Prevention of Acid Drainage*** discusses acid-base accounting, kinetic testing, block modeling, petrology, and mineralogy studies. It also explains relevant policy and regulations.
- **Part IV: *Remediation of Acid Drainage, Rock Drainage and Sulfate Soils*** examines both passive and active cleanup methods to remediate acid drainage.

Case studies from a variety of geologic settings highlight various approaches to analyzing and solving acid drainage problems. Replete with helpful appendices and an extensive list of web resources, *Acid Mine Drainage, Rock Drainage, and Acid Sulfate Soils* is recommended for mining engineers and scientists, regulatory officials, environmental scientists, land developers, and students.

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