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# Mine Water

## Hydrology, Pollution, Remediation

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Paul L. Younger, Steven A. Banwart  
and Robert S. Hedin



Springer-Science+Business Media, B.V.

# Mine Water Hydrology Pollution Remediation

**R. Gieré, Peter Stille**



## **Mine Water Hydrology Pollution Remediation:**

**Mine Water** Paul L. Younger, S.A. Banwart, Robert S. Hedin, 2012-12-06 Nowhere is the conflict between economic progress and environmental quality more apparent than in the mineral extraction industries. The latter half of the 20th century saw major advances in the reclamation technologies. However, mine water pollution problems have not been addressed. In many cases, polluted mine water long outlives the life of the mining operation. As the true cost of long-term water treatment responsibilities has become apparent, interest has grown in the technologies that would decrease the production of contaminated water and make its treatment less costly. This is the first book to address the mine water issue head on. The authors explain the complexities of mine water pollution by reviewing the hydrogeological context of its formation and provide an up-to-date presentation of prevention and treatment technologies. The book will be a valuable reference for all professionals who encounter polluted mine water on a regular or occasional basis. **Mine Water**

**Hydrogeology and Geochemistry** Paul L. Younger, N. S. Robins, 2002 **Mine Wastes** Bernd Lottermoser, 2013-04-18 This book is not designed to be an exhaustive work on mine wastes. It aims to serve undergraduate students who wish to gain an overview and an understanding of wastes produced in the mineral industry. An introductory textbook addressing the science of such wastes is not available to students despite the importance of the mineral industry as a resource wealth and job provider. Also, the growing importance of the topics mine wastes, mine site pollution, and mine site rehabilitation in universities, research organizations, and industry requires a textbook suitable for undergraduate students. Until recently, undergraduate earth science courses tended to follow rather classical lines focused on the teaching of palaeontology, crystallography, mineralogy, petrology, stratigraphy, sedimentology, structural geology, and ore deposit geology. However, today and in the future, earth science teachers and students also need to be familiar with other subject areas. In particular, earth science curriculums need to address land and water degradation as well as rehabilitation issues. These topics are becoming more important to society, and an increasing number of earth science students are pursuing career paths in this sector. Mine site rehabilitation and mine waste science are examples of newly emerging disciplines. This book has arisen out of teaching mine waste science to undergraduate and graduate science students and the frustration at having no appropriate text which documents the scientific fundamentals of such wastes. **Mine Water Treatment - Active and Passive Methods**

Christian Wolkersdorfer, 2022-12-07 This book accompanies you on a journey that starts with the basics of mine water treatment and takes you further through correct sampling for planning to active and passive systems. In the respective chapters, you will learn the most important techniques about the parameters to be measured, e.g., on-site parameters, flow rate, which methods are available to actively treat your mine water, e.g., high-density sludge method, reverse osmosis, ion exchange, and which ones to perform passive treatment, e.g., constructed wetlands, vertical flow reactor, limestone channel. You will also get an insight into the use of mine water. Don't expect a cookbook; rather, it's an ingredients and utensils list to help you find

the right recipe For extended help on this check out the more than 1000 references on all the techniques presented I wrote this book for hydrogeologists engineers graduate students government officials miners geoecologists chemical engineers in the broadest sense you This book is a translation of an original German edition The translation was done with the help of artificial intelligence machine translation by the service DeepL.com A subsequent human revision and a thorough copy editing and update by the author ensured that the contents are correctly represented      **Mine Wastes** Bernd G.

Lottermoser,2007 This book provides comprehensive up to date overview of the accumulation of wastes at mine including sulfidic mine wastes mine water tailings cyanidation wastes of gold silver ores radioactive wastes of uranium ores and wastes of phosphate and potash ores The updated second edition includes new case studies presents crucial aspects of mine wastes as scientific issues reflects major developments and contemporary issues in mine waste science additional figures and an updated reference list      **An Introduction to Mine Hydrogeology** Pradipta Kumar Deb,2013-10-27 An Introduction to

Mine Hydrogeology briefly describes the subject of hydrogeology so that this knowledge can be integrated into mine development planning It emphasizes not only the hydrochemical but also the physical impacts of the hydrogeological environment on the mine and its surroundings Further it discusses the methodologies used in mine hydrogeological studies showcased by selected studies on Indian mines      Water Management at Abandoned Flooded Underground Mines Christian

Wolkersdorfer,2008-02-01 Switching off the pumps of a mine is one of the last steps in the lifetime of a surface or underground mine As the water in the open space raises the water might become contaminated with different pollutants and eventually starts to flow in the open voids This book addresses the processes related to mine abandonment from a hydrogeological perspective After an introduction to the relevant hydrogeochemical processes the book gives detailed information about mine closure procedures Based on in situ measurements the hydrodynamic processes in a flooded mine are described and some of the mine closure flow models exemplified As all investigations base on precise data the book gives some key issues of monitoring and sampling especially flow monitoring Then the book shows some new methodologies for conducting tracer tests in flooded mines and gives some hints to passive mine water treatment At the end 13 well investigated case studies of flooded underground mine and mine water tracer tests are described and interpreted from a hydrodynamic point of view      *Engineering Tools for Environmental Risk Management* Katalin Gruiz,Tamás Meggyes,Éva

Fenyvesi,2019-01-08 The four volumes of the book series Engineering Tools for Environmental Risk Management deal with environmental management assessment monitoring tools environmental toxicology and risk reduction technologies This last volume focuses on engineering solutions usually needed for industrial contaminated sites where nature s self remediation is inefficient or too slow The success of remediation depends on the selection of an increasing number of conventional and innovative methods This volume classifies the remedial technologies and describes the reactor approach to understand and manage in situ technologies similarly to reactor based technologies Technology types include physicochemical biological or

ecological solutions where near natural sustainable remediation has priority A special chapter is devoted to natural attenuation where natural changes can help achieve clean up objectives Natural attenuation and biological and ecological remediation establish a serial range of technologies from monitoring only to fully controlled interventions using just the natural ecosystem or sophisticated artificial living systems Passive artificial ecosystems and biodegradation based remediation in addition to natural attenuation demonstrate the use of these green technologies and how engineering intervention should be kept at a minimum to limit damage to the environment and create a harmonious ecosystem Remediation of sites contaminated with organic substances is analyzed in detail including biological and physicochemical methods Comprehensive management of pollution by inorganic contaminants from the mining industry leaching and bioleaching and acid mine drainage is studied in general and specifically in the case of an abandoned mine in Hungary where the innovative technology of combined chemical and phytostabilization has been applied The series of technologies is completed by electrochemical remediation and nanotechnologies Monitoring verification and sustainability analysis of remediation provide a comprehensive overview of the management aspect of environmental risk reduction by remediation This book series focuses on the state of knowledge about the environment and its conscious and structured application in environmental engineering management and decision making

**River Basin Management VI** C. A. Brebbia, 2011 In recent years significant advances have been made in the development and application of software tools for predicting the flow water quality sediment transport and ecological processes in river systems Since 2001 the Wessex Institute of Technology has organized a biennial conference to facilitate the sharing of these advances This book contains the papers presented at the latest conference in the series The papers presented at the Conference cover Water resources management Flood studies Ecological and environmental impact Erosion and sediment transport Hydrological modelling Eco hydraulics River restoration and rehabilitation Hydropower production River and watershed management Water quality issues Trans boundary river issues Estuaries and deltas Changing Climate Droughts and desertification Water and health and Socio economic and political issues

Ecology of Industrial Pollution Lesley C. Batty, Kevin B. Hallberg, 2010-02-18 Written for researchers and practitioners in environmental pollution management and ecology this interdisciplinary account explores the ecological issues associated with industrial pollution to provide a complete picture of this important environmental problem from cause to effect to solution Bringing together diverse viewpoints from academia and environmental agencies and regulators the contributors cover such topics as biological resources of mining areas biomonitoring of freshwater and marine ecosystems and risk assessment of contaminated land in order to explore important questions such as What are the effects of pollutants on functional ecology and ecosystems Do current monitoring techniques accurately signal the extent of industrial pollution Does existing policy provide a coherent and practicable approach Case studies from throughout the world illustrate major themes and provide valuable insights into the positive and negative effects of industrial pollution the provision of

appropriate monitoring schemes and the design of remediation and restoration strategies

**Geobiotechnology I** Axel Schippers, Franz Glombitza, Wolfgang Sand, 2014-08-25 This book review series presents current trends in modern biotechnology The aim is to cover all aspects of this interdisciplinary technology where knowledge methods and expertise are required from chemistry biochemistry microbiology genetics chemical engineering and computer science Volumes are organized topically and provide a comprehensive discussion of developments in the respective field over the past 3 5 years The series also discusses new discoveries and applications Special volumes are dedicated to selected topics which focus on new biotechnological products and new processes for their synthesis and purification In general special volumes are edited by well known guest editors The series editor and publisher will however always be pleased to receive suggestions and supplementary information Manuscripts are accepted in English

**Microbiology for Minerals, Metals, Materials and the Environment** Abhilash, B. D. Pandey, K. A. Natarajan, 2015-02-25 Better Understand the Connection between Microbiology and the Inorganic World Microbiology for Minerals Metals Materials and the Environment links chemical metallurgical and other metal inherent systems with microbes and analyzes the interdependence between them Specifically intended to underscore the importance of microbes in environmental re

*Recovery of Byproducts from Acid Mine Drainage Treatment* Elvis Fosso-Kankeu, Christian Wolkersdorfer, Jo Burgess, 2020-09-04 Recent developments have provided the opportunity to recover valuable materials from AMD treatment this is a sustainable approach that allows to reduce waste while generating incomes that balance the cost of the treatment This book provides insights to innovative and affordable routes for AMD valorisation that can certainly motivate the mining industry to effectively manage their wastes and minimize environmental impact while generating jobs opportunities

*Hydrogeology* Kevin M. Hiscock, 2009-02-12 Hydrogeology Principles and Practice provides a comprehensive introduction to the study of hydrogeology and the significance of groundwater in the terrestrial aquatic environment Earlier chapters explain the fundamental physical and chemical principles of hydrogeology and later chapters feature groundwater investigation techniques and contaminant hydrogeology A unique feature of the book is a chapter on the application of environmental isotopes and noble gases in the interpretation of aquifer evolution The last chapter discusses groundwater resources and environmental management and examines the role of groundwater in integrated river basin management including the possible impacts of climate change Throughout the text boxes are used to explain special topics and to illustrate international case studies The appendices provide useful reference material and include review questions and exercises to develop the reader's knowledge and problem solving skills in hydrogeology This accessible textbook is essential reading for undergraduate and graduate students in earth and environmental sciences taking a course in hydrogeology or groundwater science An Instructor manual CD ROM for this title is available Please contact our Higher Education team at [HigherEducation.wiley.com](mailto:HigherEducation.wiley.com) for more information

**Energy, Waste and the Environment** R. Gieré, Peter Stille, 2004 This book provides

incentives for further development of sustainable fuel cycles through a novel and interdisciplinary approach to an Earth science related topic The main focus is on geochemical concepts in immobilizing isolating or neutralizing waste derived from energy production and consumption The book also addresses the issue of using some types of energy derived waste as alternative raw materials Moreover it highlights research on how certain wastes can be used for energy production an increasingly important aspect of modern integrated waste management strategies The main objectives are to a identify the most serious environmental problems related to various types of power generation and associated waste accumulation b present strategies based on natural analogue materials for the immobilization of toxic and radioactive waste components through mineralogical barriers c discuss modern procedures for reuse of waste or certain waste components and d review the importance of geochemical modelling in describing and predicting the interaction between waste and the environment

*Advances and Trends in Engineering Sciences and Technologies* Mohamad Ali, Peter Platko, 2015-10-06 The International Conference on Engineering Sciences and Technologies ESaT 2015 organized under the auspices of the Faculty of Civil Engineering Technical University in Košice Slovak Republic was held May 27-29 2015 in the High Tatras Slovak Republic Facilitating discussions on novel and fundamental advances in the fields of **Acid Mine Drainage, Rock Drainage, and Acid Sulfate Soils** James A. Jacobs, Jay H. Lehr, Stephen M. Testa, 2014-04-10 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 *Uranium in the Aquatic Environment* Broder Merkel, Britta Planer-Friedrich, Christian Wolkersdorfer, 2012-12-06 Preface Uranium is a

radioactive element and a heavy metal which is naturally occurring in ground and surface water. Although uranium is enriched in granites and gneiss, ground water from these host rocks often shows low to intermediate uranium concentrations while some ground waters from sandstone and carbonate aquifers show elevated uranium concentrations up to several hundred mg/l without man-made impact. On the other side, surface water contains increased anthropogenic uranium concentrations due to the intensive use of phosphate fertilizers and in mining areas due to mining and milling activities. Saxony and Thuringia, both being states of the reunified Germany, are probably an area where uranium mining activities have impacted the environment more severely than in any other part of the world. Thus the federal government of Germany allocated huge amounts of money for the rehabilitation work, a unique proceeding without precedent in mining history. In October 1995 the first international conference on Uranium Mining and Hydrogeology UMM I was held in Freiberg, being organized by the Department of Geology at the technical University Freiberg, by the support of the Saxon State Ministry of Geology and Environment. Due to the large scientific interest in the topic of uranium, a second conference UMH II took place in Freiberg in September 1998.

**The New Uranium Mining Boom** Broder Merkel, Mandy Schipek, 2011-10-05. The book presents the results from the Uranium Mining and Hydrogeology Conference UMH VI held in September 2011 in Freiberg, Germany. The following subjects are emphasised: Uranium Mining, Phosphate Mining and Uranium recovery, Cleaning up technologies for water and soil, Analysis and sensor for Uranium and Radon, and Modelling.

**Groundwater in the Environment** Paul L. Younger, 2009-03-12. This accessible new textbook provides a thorough introduction to all aspects of groundwater systems and their management. Using straightforward language and analogies to everyday experiences, it explains the origins, nature, and behavior of subsurface water without resorting to complicated mathematics. *Groundwater in the Environment* draws on case studies and cutting edge research from around the world, giving a unique insight into groundwater occurring in a wide range of different climate zones and geological settings. This book provides a robust practical introduction to groundwater quality and a succinct summary of modern remedial technologies for polluted groundwaters. It explores how groundwater fits into the wider natural environment, especially in relation to freshwater ecosystems, considers the vulnerability of groundwater systems and the effects of pollution, climate change, land use change, and overexploitation. It examines human dependence on water and the effect that this has on groundwater systems. It presents vivid examples of geohazards associated with groundwaters, explains the whys and wherefores of groundwater modeling, examines competing philosophies of groundwater management, making the case for approaches which take social, economic, and ecological issues into account. *Groundwater in the Environment* provides an up to date essential introduction for undergraduate students of environmental sciences, geography, and geology. It will also be invaluable to professionals working in various fields of natural resource management who need accessible information on groundwater but who are reluctant to read conventional texts full of mathematical notation. For practicing hydrogeologists and engineers without formal training in

freshwater ecology this book provides a crashcourse in the new frontiers of groundwater management Artwork from the book is available to instructors online at <http://www.blackwellpublishing.com/younger> [www.blackwellpublishing.com/younger](http://www.blackwellpublishing.com/younger) a An Instructor manual CD ROM for this title is available Please contact our Higher Education team at [HigherEducation@wiley.com](mailto:HigherEducation@wiley.com) [HigherEducation.wiley.com](http://HigherEducation.wiley.com) a for more information

## **Mine Water Hydrology Pollution Remediation** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be much more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Mine Water Hydrology Pollution Remediation**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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