

Bernd G. Lottermoser

Mine Wastes

Characterization, Treatment
and Environmental Impacts

3rd Edition

 Springer

Mine Wastes Characterization Treatment And Environmental Impacts

Bernd Lottermoser

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mine wastes as scientific issues reflects major developments and contemporary issues in mine waste science additional figures and an updated reference list **Mine Wastes** B. G. Lottermosser,2007 **Mine Wastes** Bernd Lottermosser,2010-07-11 Towards a Sustainable Management of Mine Wastes Mostafa Benzaazoua,Yassine Taha,2020-03-06 The need for efficient and sustainable management methods of mine waste is continuously growing all around the world These waste products often present serious management problems due to their more or less significant amounts and possible environmental threats This Special Issue highlights the recent and new trends in sustainable mine waste management techniques Currently it is essential to sustainably manage mine waste considering social economic environmental and technical aspects In this Special Issue insights related to the following issues are highlighted the problems around mine waste the fine characterization of mine waste the latest available technical and environmental solutions to efficiently manage mine waste including treatment and processing before disposal and high value element recovery with the view of moving towards defining effective low cost and ecofriendly methods the recycling of mine waste products as alternative resources in different sectors and finally laboratory pilot and or industrial scale studies related to these topics of research Scientists and industry and governance stakeholders have to face these new challenges to find the best management practices for the future **Beneficiation and Management of Technological Waste** Anurag Bajpai,Arunabh Meshram,Krishanu Biswas,2025-05-22 This book focuses on the present and future trends technologies as well as regulations for the reduction reuse and recycling of technological waste globally from the perspective of environmental social and economic elements of the different connected systems It also analyses specific technological waste producing materials and product streams in depth and investigates the future of technological waste and its management considering better end of lifecycle designs legislation and sustainability perspectives Key Features Provides comprehensive review of beneficiation and management of technological waste Discusses sustainability in waste management and beneficiation Covers current practices policies and solutions governing the existing supply of discarded or waste technological products and by products Reviews material centric waste disposal and beneficiation Includes case studies from industry on technological waste generation and handling This book is aimed at graduate students and researchers in materials science and engineering extractive metallurgy and sustainable and environmental engineering **Sustainable Waste Management Practices for the Mining Sector Through Recycling of Mining Waste** Suchismita Satapathy,Meghana Mishra,Manas R. Das,2024-11-20 Mining waste management is an important issue for the mining industry since it entails the safe and responsible disposal of waste created during mining operations This waste comprises tailing waste rock and other mining wastes that if not adequately managed can pose environmental and health problems Effective waste management solutions are required to reduce the environmental impact of mining and preserve the long term viability of mining operations These initiatives include improving mining practices to reduce waste generation establishing

effective waste treatment and disposal systems and participating in community outreach and education programme In recent years there has been a growing emphasis on the use of new mining waste management technologies and practices The adoption of modern filtration systems bio remediation techniques and the rehabilitation of abandoned mining sites are examples of these Overall good mining waste management is critical for guaranteeing the mining industry long term sustainability and protecting the environment and communities where mining operations take place Sustainable waste management is the implementation of practices and strategies that aim to minimize aim the negative impact of mining waste while promoting resource efficiency and long term economic viability it involves employing a thorough approach that considers the entire mining waste lifetime from generation to disposal and seeks to reduce waste generation reuse or recycle items and appropriately dispose of any remaining rubbish It attempts to extend the life of materials while reducing the waste volume that is incinerated or dumped in landfills To lessen the detrimental environmental economic social and effects in consumption a thorough approach to sustainable waste management must concentrate on the life cycle of a product Mining wastes can be categorized into overburden waste rock tailings and mine water During mineral extracted beneficiated and processed mining wastes are produced The first stage known as extraction which is the first layer sacking of minerals Typically blasting is used to do this which produces a significant amount of garbage soil debris and other material This is usually only concentrated within the periphery of a mine rental place and occasionally on public land and is useless to the industry The amount of waste produced increases with the size of the mine Because they produce far more trash than underground mines opencast mines are consequently more pollutant intensive Use of tailing waste of iron mines with clay for producing bricks can lead to consumption of large quantities of the waste materials and managing it in an environmentally friendly way On the other hand it can reduce consumption of top soil for making bricks and improve construction materials availability Similarly for preparation of ceramics and polymer composite these wastes can be used which will help in solving social environmental problem

Mine Wastes and Water, Ecological Engineering and Metals Extraction Margarete Kalin-Seidenfaden, William N. Wheeler, 2022-02-03 The book reviews past and present mine waste management processes It estimates global water consumption by major mining resources per annum This consumption will lead land use resources agriculture and water to collide with mining interests expected in the near future With the application of novel metal extraction processes and the adoption of ecological engineering as an approach to waste and water management a reduction in water and land consumption can be achieved Using these methodologies would make mining more sustainable Together with ore and metal recycling mining methods can be brought into the 21st century The book describes natural weathering processes and the microbiology of extreme environments also known as mine sites The role of microbes in weathering and remediation is emphasized along with case studies of the enhancement of various ecological processes which curtail weathering and transform pollutants creating ore bodies of the future This book has been written as an extension to a

contribution to the Oxford Research Encyclopedia It adds depth and many examples from 40 years of multidisciplinary work with experts from geology hydrogeology geomicrobiology and algal physiology and chemistry items too extensive for the Encyclopedia *Managing Mining and Minerals Processing Wastes* Chongchong Qi,Craig H Benson,2023-03-10 Managing Mining and Minerals Processing Wastes Concepts Design and Applications presents fundamental knowledge in waste management in mining and minerals processing and summarizes recent advances The book offers readers insights into innovative ways to manage waste in the mining and minerals industry Sections cover a brief introduction to this topic and an explanation of waste generation and how to manage the six types of waste including waste rock mill tailings coal refuse and coal fly ash quarry waste metallurgical slugs and washery rejects The title then emphasizes the management of hazardous waste the acid mine drainage and the lifecycle assessment of waste management Finally the book considers current and emerging challenges This publication offers a comprehensive background to waste management in mining and minerals processing and a summary of recent advances and innovative strategies for managing each kind of waste Presents the background to waste management in minerals and mining also summarizing recent advances Provides an accessible introduction to the current state of and future prospects for waste management Helps readers increase their usable knowledge on waste management in mining and minerals engineering Offers new insights into how waste can be managed in innovative ways Covers hazardous waste acid mine drainage lifecycle assessment and emerging issues

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