



Mine Wastes Mine Wastes

Mostafa Benzaazoua, Yassine Taha



Mine Wastes Mine Wastes:

Mine Wastes Bernd Lottermoser, 2010-07-09 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 Wastes** Bernd G.

Lottermoser, 2003 Today's best practice in environmental mine waste management requires a thorough understanding of the wastes produced. The knowledge of mine wastes represents a new interdisciplinary science, and this book provides an introductory descriptive and analytic overview of the wastes produced in the mineral industry. It describes the characterization, prediction, monitoring, disposal, and treatment, as well as environmental impacts. Intended for undergraduate courses, it systematically builds the reader's understanding and knowledge of the wastes produced, their physical and chemical characteristics, and how to deal responsibly with them on a short and long term basis. The text employs 16 case studies spanning the world's mineral industry that elucidate best practice and specific challenges in mine waste management and site rehabilitation. *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

Mine Wastes Bernd Lottermoser,2010-07-11 **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

Environmental Aspects of Mine Wastes J. L. Jambor,David W. Blowes,A. Ian M. Ritchie,2003 Mine Waste Management in China: Recent Development Di Wu,2019-07-30 This book introduces recent development of technologies for mine waste management in China For hard rock mines the main mine wastes are tailings and the tailings can be disposed above ground and or underground The technology of consolidated tailings stockpile CTS that disposes tailings above ground is introduced and the application of this technology is also demonstrated Besides the technology of cemented tailings or paste backfill CTB or CPB which deals with tailings underground is also discussed The properties of CTB materials and the utilization of CTB technology are described and analyzed For coal mines the main mine wastes are coal gangue and fly ash The technology of cemented coal gangue fly ash backfill CGFB that manages coal mine waste underground is presented The THMC coupling properties of CGFB materials are investigated which can contribute to a better design of stable durable and environmentally friendly CGFB mixtures The application of CGFB technology in a coal mine is also presented This book which systematically reviews and discusses the development of mine waste management technologies in China is expected to provide readers comprehensive information about mine waste management

Mine Wastes B. G. Lottermosser,2007 Mine Wastes Bernd Lottermoser,2007-08-26 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 till 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 day 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

Towards a Sustainable Management of Mine Wastes: Reprocessing, Reuse, Revalorization and Repository Mostafa Benzaazoua, Yassine Taha, 2020 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

Tailings and Mine Waste 2002 Symposium Editors, 2002-01-01 The proceedings in this work present 60 papers on mine and mill tailings and mine waste as well as current and future issues facing the mining and environmental communities This includes matters dealing with technical capabilities and developments regulations and environmental concerns

Tailings and Mine Waste '04 Linda Hinshaw, 2004-09-15 Written by specialists from the mining industry this collection of over sixty papers from the eleventh annual Tailings and Mine Waste Conference deals with technical capabilities and developments as well as regulations and environmental concerns It includes papers on topics such as site characterization radioactivity and risk

Mine Waste Disposal Technology, 1981

Geotechnical Engineering for Mine Waste Storage Facilities Geoffrey E. Blight, 2009-11-16 The book is a comprehensive treatment of the application of geotechnical engineering to site selection site exploration design operation and closure of mine waste storage facilities The level and content are suitable as a technical source and reference for practising engineers engaged

both in the design and operational management of mine waste s **Tailings and Mine Waste 2010** The Organizing Committee of the 14th International Conference on Tailings and Mine Waste,2010-11-12 Tailings and Mine Waste 10 contains the contributions from the 14th annual Tailings and Mine Waste Conference held by Colorado State University of Fort Collins Colorado in conjunction with the University of Alberta and the University of British Columbia The purpose of this series of conferences is to provide a forum for discussion and establishment of dialogue among all people in the mining industry and environmental community regarding tailings and mine waste Tailings and Mine Waste 10 includes over 40 papers which present state of the art papers on mine and mill tailings and mine waste as well as current and future issues facing the mining and environmental communities including technical capabilities and developments regulations and environmental concerns The book will be of interest to mine and mill managers engineers involved with tailings management and reclamation geotechnical and geoenvironmental engineers regulatory personnel consulting engineers and researchers

Good Samaritan Abandoned Or Inactive Mine Waste Remediation Act United States. Congress. Senate. Committee on Environment and Public Works. Subcommittee on Fisheries, Wildlife, and Water,2002 **Acid Mine Water** Water Resources Scientific Information Center,1975 **Underground Disposal of Coal Mine Wastes** Study Committee to

Assess the Feasibility of Returning Underground Coal Mine Wastes to the Mined-Out Areas,National Science Foundation (U.S.),1975 **Mine Waste Utilization** Ram Chandar Karra,Gayana B C,Shubhananda Rao P,2022-07-04 This book is a comprehensive work on utilization of overburden waste ash tailings and other processed waste produced by mining industry It details various laboratory tests to identify the suitability of mine waste It explains varied usage of different types of mine waste as in concrete pavements bricks and to enhance fertile characteristics of waste lands Various physico mechanical properties of mine waste material and their optimum percentage for replacement with sand and coarse aggregate along with additives for optimum strength of concrete bricks are discussed Key features Covers the technical approach in terms of testing and characterizing mine waste Focusses on effective use of mining waste to make sustainable and ecofriendly mining Presents analysis of physical properties of iron ore waste and their usage Describes testing methods for each type of mine waste and its physical property characterization for every application Includes detailed study to use iron ore waste and tailings in concrete pavements This book is aimed at researchers professionals and graduate students in mining geotechnical and civil engineering **Tailings and Mine Waste 2000** A. A. Balkema Publishers,2022-05-16 The objective of this text is to provide information on mill tailings and mine waste and to discuss current and future issues facing the mining and environmental communities With over 60 papers included

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