



Mine Drainage

Geoffrey S. Simate, Sehliselo Ndlovu

Mine Drainage:

Acid Mine Drainage in Appalachia. Appendix A-[F]. Appalachian Regional Commission,1969 **Handbook of Pollution Control Costs in Mine Drainage Management** Monongahela River Mine Drainage Remedial Project,1967

Acid Mine Drainage United States. Division of Water Supply and Pollution Control,1962 *Acid Mine Drainage*
Workshop Acid Mine Drainage Workshop, 1st, Ohio University, 1971,1971 **Mine Drainage and Related Problems**

Brock C. Robinson,2010 Acid mine drainage refers to the outflow of acidic water from usually abandoned metal mines or coal mines However other areas where the earth has been disturbed eg construction sites subdivisions transportation corridors etc may also contribute acid rock drainage to the environment This book discusses the effectiveness and sustainability of active and passive systems for the treatment of acid mine drainage acid mine drainage in the Portuguese Iberian pyrite belt the geochemistry of acid mine drainage and it s environmental pollution problem the status of acid mine drainage and metal leaching in Ghana the disposal and beneficial use of acid mine drainage sludge and a host of other related topics *Acid Mine Drainage* ,1982 **Acid Mine Drainage Formation and Abatement** Ohio State University. Research Foundation,1971 Mine Drainage Stephen Michell,1881 **Feasibility of Silver-lead Mine Waste Manipulation for Mine Drainage Control** ,1977 **Acid Mine Drainage** Lucas Henderson,2018 Mining activities can increase environmental problems and compromise the quality of soils surface water groundwater and atmosphere as well as expose the biota to toxic elements In Acid Mine Drainage Chemistry Effects and Treatment the authors present preventive techniques that can be used in conjunction with active and passive techniques for the treatment of acidic effluents Passive treatments utilize naturally available energy sources such as gravity microbial metabolic energy and photosynthesis for the treatment of acid mine drainage The main aim of the next study was to assess the potential impact of a chemical stressor such as acid mine drainage on benthic macroinvertebrate communities through a spatial and temporal gradient Five stations three reference sites and two impacted sites were selected for this study in the watershed surrounding S Domingos mine The objective of another significant study was to employ an ecotoxicological screening tool to prioritise streams and rivers impacted by acid mine drainage in the upper Olifants River catchment South Africa as candidates for possible passive treatment interventions Impacts of direct water pollution can result from any activities that involve direct discharges into waterbodies In Morocco numerous old mine sites have been abandoned without any plan for proper closure and thus many of them have become very dangerous to the environment In the concluding study the Kettara mine a Moroccan pyrrhotite mine located in a semi arid area was chosen as a pilot site More than three million tonnes of mine residues were deposited there and the physicochemical characterization of these mine wastes confirmed their strong potential to produce acid mine drainage with a pH varying between 2.9 and 1.5 **Hydrogeology and Geochemistry of Acid Mine Drainage in Ground Water in the Vicinity of Penn Mine and Camanche Reservoir, Calaveras County, California** Scott N. Hamlin,Charles

N. Alpers,1995 Control of Mine Drainage from Coal Mine Mineral Wastes Z. V. Kosowski,1973 **Acid Mine Drainage**

Geoffrey S. Simate,Sehliselo Ndlovu,2021-02-23 Acid mine drainage AMD is essentially the flow of water polluted with metals and other substances from existing old mining areas and is considered to be one of the sources of pollution A wide range of technologies are available for preventing AMD generation and or treating AMD before discharge but there is a shift towards recovery of industrially useful materials and products from AMD Acid Mine Drainage From Waste to Resources explores novel methods developed for the reuse and or recovery of industrially useful materials from AMD including discussing generation prediction prevention and remediation processes It includes legislation and policy frameworks governing AMD and its environmental health impacts Provides a detailed overview of the mining operations and discusses the geochemical and hydrogeological context of acid mine drainage AMD formation prediction and impact Presents a holistic approach to AMD generation prediction prevention and remediation processes Presents exclusive material on reuse recycling and recovery of industrially useful materials from AMD Gives a detailed overview of the legislation and policy regulatory framework governing the management of AMD Analyses the effects of AMD on the environment and health This volume is aimed at researchers and professionals in metallurgical engineering chemical engineering environmental engineering and mining engineering including policy makers

Hard Rock Mine Reclamation Bruno Bussière,Marie Guittonny,2020-12-09

Hard rock mines have significant effects on the territories where they operate through both infrastructure construction as well as resource use Due to their extractive activities these mines store large quantities of wastes at the surface which can be both physically and chemically unstable Reclamation aims to return a mine site to a satisfactory state meaning that the site should not threaten human health or security should not generate in the long term any contaminant that could significantly affect the surrounding environment and should be aesthetically acceptable to communities This book focuses on the reclamation of waste storage areas which constitute the main source of pollution during and after mine operations and especially issues with acid mine drainage and neutral contaminated drainage Features Provides fundamental information and describes practical methods to reclaim mine waste facilities Compares the different methods and illustrates their application at sites through case studies Identifies new reclamation issues and proposes solutions to address them Presents existing and new technologies to reclaim mine waste disposal areas from hard rock mines in different climatic conditions Integrates reclamation into mine operations and long term performance of techniques used through an interdisciplinary approach With mine site reclamation a young and still emerging science the training needs for professionals and students working in this field are huge This book is written from an engineering point of view and in it the authors identify new reclamation issues and propose well tested as well as innovative approaches to addressing them Students in graduate programs focused on mines and the environment as well as professionals already working in departments related to mine site reclamation will find this book to be a valuable and essential resource

An Evaluation of Problems Arising from Acid Mine Drainage in

the Vicinity of Shasta Lake, Shasta County, California ,1978 **Acid Mine Drainage Formation and Abatement**
Ohio State University (Columbus). Research Foundation,1971 **Acid Mine Water** Water Resources Scientific Information
Center,1975 *International Land Reclamation and Mine Drainage Conference and Third International Conference on the*
Abatement of Acidic Drainage: Mine drainage ,1994 Mine Drainage Pollution Control Demonstration Grant Procedures
and Requirements Frank J. Zaval,Robert A. Burns,1974 **Mine Drainage Bibliography, 1929-1980** ,1980

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