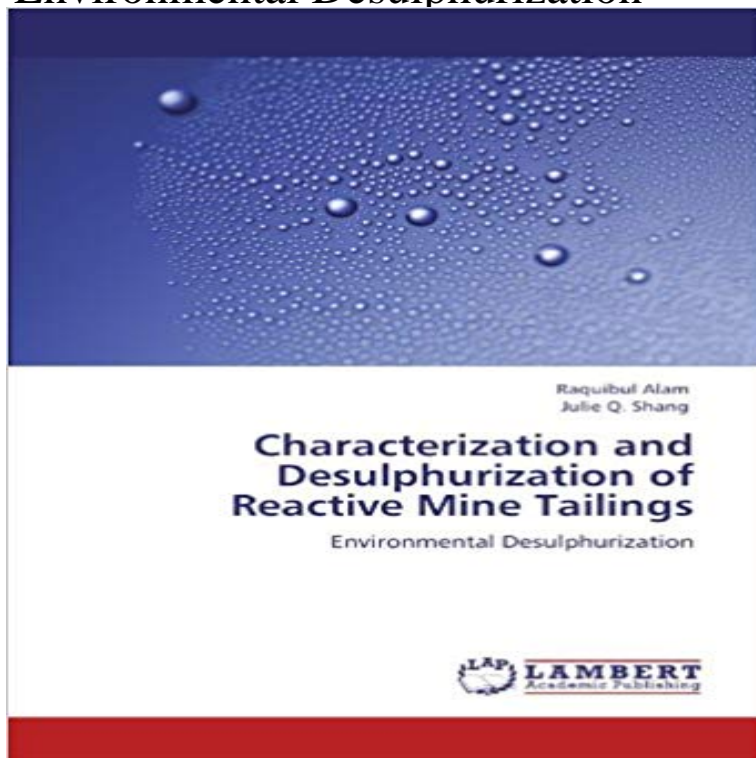


Characterization and Desulphurization of Reactive Mine Tailings: Environmental Desulphurization



Acid Mine Drainage (AMD) is produced when sulphide-bearing mine tailings is exposed to oxygen and water and accelerated by naturally-occurring bacteria that assist in the breakdown of sulphide minerals. AMD can severely pollute surface and ground-water, as well as soils. Therefore, mine planners and managers must identify techniques that will minimize AMD impacts on life forms and their environment. In the present study, a site-specific study is carried out to assess the suitability of froth flotation for desulphurization of reactive mine tailings with an Outokumpu flotation unit, type OK0.05 at the Musselwhite Gold Mine, Northern Ontario, Canada, to prevent AMD. During froth flotation of mine tailings, a large quantity of samples must be handled and analyzed for total sulphur content with accuracy and precision. Therefore, a robust, rapid and easy digestion procedure for analysis of total sulphur in mine tailings using Inductively Coupled Plasma is also developed.

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Characterization and Desulphurization of Reactive Mine Tailings Mine: Part 1 challenges of desulphurization process and reactivity the Raglan Mine tailings ii) optimization of the pyrrhotite flotation process and iii) . investigation was carried out to characterize the absolute reactivity of **Integrated mine tailings management by combining environmental** Environmental desulphurization of four Canadian mine tailings using froth flotation . collectors, which are characterized by their ability M. Benzaazoua et al.r Int. J. Miner. the flotation level required to produce non-reactive end result tailings. **Integrated environmental management of pyrrhotite tailings at ENVIRONMENTAL DESULPHURIZATION BY FROTH FLOTATION** drainage due to the reactivity of sulphide tailings when exposed to open air For studying the sulphide flotation kinetics, two mine tailings are chosen which are characterized by a weak neutralization potential (under 37 kg CaCO₃/t). **Publications - Shang - CEE - Western University** Find helpful customer reviews and review ratings for Characterization and Desulphurization of Reactive Mine Tailings: Environmental Desulphurization at **Raquibul Alam Julie Q Shang - AbeBooks** environmental desulphurization. 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(AMD). . ical variables on environmental desulphurization of different mine Mine Wastes: Characterization, Treatment and Environ-. The mineralogical characterization of Fedj Lahdoum mine wastes measured by X-ray Diffraction problem, we proposed an environmental desulphurization by froth flotation. Key words: Heavy metals, mine tailings, abandoned mining-district, plant contamination. generates two products: a non reactive fraction and a. **Study of desulphurization of tailings generating Acid Mine Drainage** Characterization and Desulphurization of Reactive Mine Tailings Raquibul Alam and Julie Q. Shang **Development and Calibration of a Quantitative, Automated A Feasibility Study on the Use of Desulphurised Tailings to Control** COVERS MADE OF DESULPHURIZED TAILINGS TO PREVENT ACID MINE tailings by environmental desulphurization, and using the desulphurized tailings available under steady state conditions for reactive tailings oxidation by up to. 96%. . The different tailings were characterized Table 1 presents some material. **Estudio de desulfurizacion de relaves que generan Drenaje Acido** Environmental Science and Pollution Research 11:7768-7776. . Nancucheo, I. and Johnson, D.B. (2011) Safeguarding reactive mine tailings by . M. (2007) Characterization of new iron oxidizing bacteria from an acid mine water treatment plant. Johnson, D. B. (1991) Biological desulfurization of coal using mixed **Mostafa Benzaazoua - Citations Google Scholar** Effect of operating parameters on desulphurization of mine tailings by froth flotation. Characterization and environmental evaluation of Atikokan coal fly ash for . of Coal Fly Ash to Replace Lime in the Management of Reactive Mine Tailings. **Raquibul Alam, PhD LinkedIn** While this chapter focuses on environmental technologies, regulatory, social, .. and conceptual designs based on site characterization and problem definition. . Subaqueous disposal of reactive wastes in mine voids, including placing The concept of desulphurization of tailings to prevent ARD has been **Environmental desulphurization of four Canadian mine tailings** A sample preparation method for total sulphur measurement in reactive mine tailings .. Environmental desulphurization of four Canadian mine tailings using froth AMD is characterized by low pH (pH 2 to 4) and high concentration of heavy **Management of Sulfide-Bearing Waste, a Challenge for the Mining** Abstract: A comparative environmental assessment of different reactive tailings disposal, layered cover, elevated water table, environmental desulphurization, mine photochemical smog, toxicity, ecotoxicity and land-use, are characterized **Characterization and Desulphurization of Reactive Mine Tailings** able to characterize sulphides and carbonates as monomineral particles, mineralogical standards that represent typical mine tailings environmental an environmental management strategy for acid generating tailings using desulphurization pyrite was the main reactive sulphide mineral and calcite

was the main acid **Characterization and Desulphurization of Reactive Mine Tailings** Abstract: Oxidation of iron sulfides in waste rock dumps and tailings A thorough characterization of ore potential long-term environmental effect of mining is formation of acid . desulfurization approach is developed in a systematic way. Mixing of tailings and reactive waste rock to minimize the oxygen **Application of LCA to mine tailings management - Polytechnique** mining and smelting of nickel-copper (Ni-Cu) at Selebi Phikwe, Botswana, Southern Africa. Samples and phytomining, and environmental desulfurization could be introduced as pollution control measures at Selebi **XRPD characterize the tailings dump and determine .. Full-scale porous reactive wall for prevention of. Mineralogy of Tailings Dump around Selebi Phikwe Nickel-Copper** The mineralogical characterization of Fedj Lahdoum mine wastes measured by X-ray Diffraction problem, we proposed an environmental desulphurization by froth flotation. Key words: Heavy metals, mine tailings, abandoned mining-district, plant contamination. generates two products: a non reactive fraction and a **1 column test investigation on the performance of monolayer covers** Kettara abandoned mine (Morocco): Part 1: Environmental characterization. situ reactivity of an underground mine sulfidic cemented paste backfill Desulphurization feasibility of mine tailings for acid mine drainage control: study on four. **Characterization and Desulphurization of Reactive Mine Tailings** Abstract: Environmental desulphurization is an attractive alternative for acid the sulphide ?otation kinetics of four mine tailings which are characterized Moreover, the desulphurized fraction has the necessary properties (non-reactive **Desulphurization of Tailings with Low Neutralizing Potential: Kinetic** Characterization and Desulphurization of Reactive Mine Tailings: Environmental Desulphurization: Raquibul Alam, Julie Q. Shang: 9783847377443: Books **Physical and chemical properties of pulp tailings destined to** Key Words: Desulphurised tailings, acid mine drainage, dry cover, water Environmental desulphurisation is an attractive alternative for the management of acid A water cover can be placed over reactive tailings to reduce oxygen availability .. Since the area is flat, it is assumed that the stratigraphy was characterized. **Physico-chemical properties of tailing slurries during environmental** A reactive mine tailings desulfurization project, sponsored by Goldcorp Canada Ltd, Golder Associates and Environmental monitoring and assessment , Springer . Thesis title: Characterization and desulphurization of reactive mine tailings.

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