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This chapter discusses that the pyrite
oxidation in the natural environment

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is a surface controlled reaction and for this reason pyrite oxidation under such conditions may never come to completion. Pyrite oxidation models can be grouped into two categories depending on approach employed to make predictions: deterministic functional models, and mechanistic models.

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Pyrite Oxidation and its Control is the single available text on the market that presents the latest findings on pyrite oxidation and acid mine drainage (AMD). This new information is an indispensable reference for generating new concepts and technologies for controlling pyrite oxidation.

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Molecular Oxidation ...

Sulfide oxidation, part of sulfur's biotic/abiotic cycle, is an important natural phenomenon. However, because of the sulfide's association with metallic ores and fossil fuels in the form of pyrite (FeS_2) and the world's increasing demand for metals and fossil fuels, sulfide oxidation in nature is in some state of perturbation. This perturbation, which

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results from land disturbances (e.g., mining, and/or ore processing), produces acid drainage often enriched with heavy metals.

A review: Pyrite oxidation mechanisms and acid mine ...

Sep 19, 2020 pyrite oxidation and its control and molecular oxidation mechanisms microbial role k Posted By Astrid Lindgren Publishing TEXT ID 684b76a4 Online PDF Ebook Epub Library this acid drainage commonly referred to as acid mine drainage and has become an economic and environmental burden this review deals with abiotic biotic modes of pyrite oxidation and the mechanistic

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Pyrite particles buried in aggregates

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cannot be coated with iron phosphate and can produce acid once the aggregates disintegrate. Coating and leaching-oxidation tests were carried out using 0.5 g of the pyritic shale sample mixed with approximately 1 g of sand and using a miscible displacement technique.

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complexity of the pyrite oxidation process. Numerous elementary pathways are involved in the mechanism. The sulfur atoms have oxidation number - 1, and during the reactions, they end up with oxidation number +6, as sulfates. Therefore, it is

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expected that several electron-transfer pathways might be accessible in the oxidative process. Basolo and

Pyrite Oxidation Mechanism by Oxygen in Aqueous Medium

It is now clear that the cathodic reaction is the rate-determining step for sulfide mineral oxidation (e.g., Brown and Jurinak, 1989). Williamson and Rimstidt (1994) showed that the pyrite oxidation rate depends on the concentration of Fe^{3+} or O_2 (Fig. 2, Fig. 3). Because the oxidant is involved in the activated complex, we can deduce that electron transfer from the sulfide to the oxidant, at ...

Pyrite oxidation: a state-of-the-art
assessment of the ...

Acid mine drainage (AMD) produced
by the oxidation of sulfide ore,

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especially pyrite, pollutes water and soil. Therefore, it is particularly important to control the oxidation of pyrite and the production of acid mine wastewater at the source.

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