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Mechanisms, Microbial Role, Kinetics, Control, Ameliorates and Limitations, Microencapsulation. V. P. (Bill) Evangelou, Ph.D. Professor of Soil and Water Physical Chemistry University of Kentucky, Lexington.

PYRITE OXIDATION and ITS CONTROL

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. This book focuses on pyrite oxidation theory, experimental findings on oxidation mechanisms, as well as applications and limitations of amelioration technologies.

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grouped into two categories depending on approach employed to make predictions: deterministic functional models, and mechanistic models.

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Information is an indispensable reference for generating new concepts and technologies for controlling pyrite oxidation.

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

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A review: Pyrite oxidation mechanisms and acid mine ...
Sep 19, 2020 pyrite oxidation and its control amd molecular
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acid mine drainage amd 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 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

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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 expected that several electron-

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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 ...

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Acid mine drainage (AMD) produced by the oxidation of

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