

BIOFOULING AND BIOCORROSION IN INDUSTRIAL WATER SYSTEMS%0A

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Traditional water treatment strategies however, have largely failed to address those factors that promote biofouling activities and lead to biocorrosion. Some of the major developments in recent years have been a redefinition of biofilm architecture and the realization that MIC of metals can be best understood as biomineralization.

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PDF Biofouling and Biocorrosion in Industrial Water Systems

Biofouling of industrial water systems is the phenomenon whereby surfaces in contact with water are colonized by microorganisms, which are ubiquitous in our environment. However, the economic

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Biofouling and Biocorrosion in Industrial Water Systems

Biofouling and Biocorrosion in Industrial Water Systems S. E. Coetser and T. E. Cloete
INTRODUCTION When water-borne bacteria congregate in sufficient numbers they form a film on the surface of pipes, tanks, and indeed any

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Biofouling and Biocorrosion in Industrial Water Systems

Biofouling and Biocorrosion in Industrial Water Systems presents the state-of-the-science on biofilm processes that relate to fouling corrosion of surfaces used in industrial systems. The book explores engineering and scientific approaches to the characterization and control of biofilm processes, and it introduces new developments in the analysis and understanding of microbial processes. Several chapters have been devoted to examining the new concept of biological and chemical heterogeneity

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Biofouling Biocorrosion in Industrial Water Systems

Where (in a particular industrial water system) is biofouling likely to occur? How do biofilms influence corrosion? What are strategies for controlling biofilm accumulation and biocorrosion? It is obvious from this list of questions that the general concepts of biofilm detection, quantification and control are underlying themes.

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Biofouling and Biocorrosion in Industrial Water Systems

Microbial growth and contamination ("Biofouling") in water systems represents a significant threat to the quality of waters produced for the microelectronic, pharmaceutical, petroleum, paper, food and other manufacturing industries. Biofouling can lead to biologically induced corrosion

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Biofouling and Biocorrosion Montana State Univ

This type of large-scale biofouling is common in many industrial water system components including, pulp and paper manufacturing, cooling towers, and nuclear power plant circulation systems.

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Biofouling and Biocorrosion in Industrial Water Systems

This is a brief discussion of a variety of biocorrosion cases which occurred in industrial water systems. The focus will be on cast iron where biocorrosion is com-monplace and usually not
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Biofouling and Biocorrosion in Industrial Water Systems

Both biofouling and biocorrosion are frequently not recognized in time, underestimated, or linked with the wrong causes. The book represents a new approach by introducing biofilm properties and dynamics as basic principles of biofouling and biocorrosion, thus providing a better understanding and the means of fighting the undesired effects of biofilms.

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Biocorrosion and biofouling of metals and alloys of

Biocorrosion and biofouling of metals and alloys of industrial usage. Present state of the art at the beginning of the new millennium H. A. Videla* Abstract An overview on the present state of the art on Biocorrosion and Biofouling of metals and alloys of industrial usage is offered on the basis of the experience gathered in our laboratory over 25 years of research. The key concepts to
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The chemical control of biofouling in industrial water systems

Abstract. Oxidising and non-oxidising biocides are commonly used in an attempt to control biofouling in industrial water systems. Many of these programmes, however, fail due to the incorrect selection and application of these chemical compounds.

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