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(2005). Biofouling and Biocorrosion in Industrial Water Systems. Critical Reviews in Microbiology: Vol. 31, No. 4, pp. 213-232.

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1. Crit Rev Microbiol. 2005;31(4):213-32. Biofouling and biocorrosion in industrial water systems. Coetser SE(1), Cloete TE. Author information: (1)Department of Microbiology and Plant Pathology, University of Pretoria, Pretoria, South Africa. eugene.cloete@up.ac.za Corrosion associated with microorganisms has been recognized for over 50 years and yet the study of microbiologically influenced ...

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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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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 piece of equipment.

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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. An example of biofouling and biocorrosion in nuclear power plant heat exchangers is shown in Figure 4.

### Biofouling and Biocorrosion - Montana State University

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.

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These reactions refer to biocorrosion when the substratum consists of a metal or metal alloy. The effect of corrosive microbial products on an underlying metal surface is exacerbated when their concentrations are permitted to increase to high levels as may occur when the microorganisms grow on the surface in a biofilm.

What is Biocorrosion? | SpringerLink

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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