

Download Microbiologically Influenced Corrosion Handbook

The text also looks at welding, heat treatment and other metallurgical and process variables relate to corrosion resistance, special emphasis being placed on MIC. Case histories are included and the means of detection, diagnosis and monitoring are discussed. Prevention, mitigation and replacement of MIC are also examined.

MIC (microbiologically influenced corrosion) is the deterioration of metal by corrosion processes that occur either directly or indirectly as a result of the activity of living organisms.

Microbiologically Influenced Corrosion Handbook by Borenstein, S and Publisher Woodhead Publishing. Save up to 80% by choosing the eTextbook option for ISBN: 9781855731271, 9781845698621, 1845698622. The print version of this textbook is ISBN: 9781855731271, 1855731274.

It provides information on the microbiologically influenced corrosion (MIC) of irons and steels, passive alloys (austenitic stainless steels), aluminum alloys, copper alloys, and composites. The article reviews the formation of microbial biofilms and macrofouling films. It also describes the general approaches taken to prevent MIC.

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Microbiologically Influenced Corrosion Handbook Sorry - this product is no longer available Microbiology, metallurgy, and electrochemistry as they relate to microbiologically influenced corrosion (MIC).

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More general discussions of MIC are found in the articles Microbiologically Influenced Corrosion and Microbiologically Influenced Corrosion Testing in ASM Handbook, Volume 13A. 2003.

SUPPLEMENT 3 Microbiologically Influenced Corrosion in Fire Sprinkler Systems Bruce H. Clarke Anthony M. Aguilera Editor's Note: Supplement 3 has been included to provide the user with background

Microbiologically influenced corrosion (MIC) is metal deterioration as a result of the metabolic activity of various microorganisms. This corrosion is promoted or caused by microorganisms, typically chemoautotrophs. This type of corrosion applies to non-metallic objects as well as metals. For instance, aerobic bacteria such as acidithiobacillus thiooxidans can cause significant corrosion as it serves as a factor in biogenic sulfide corrosion.

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