

**Biofilm**

$\text{HS}^-$



$\text{SO}_4^{2-}$

**SRB attack**

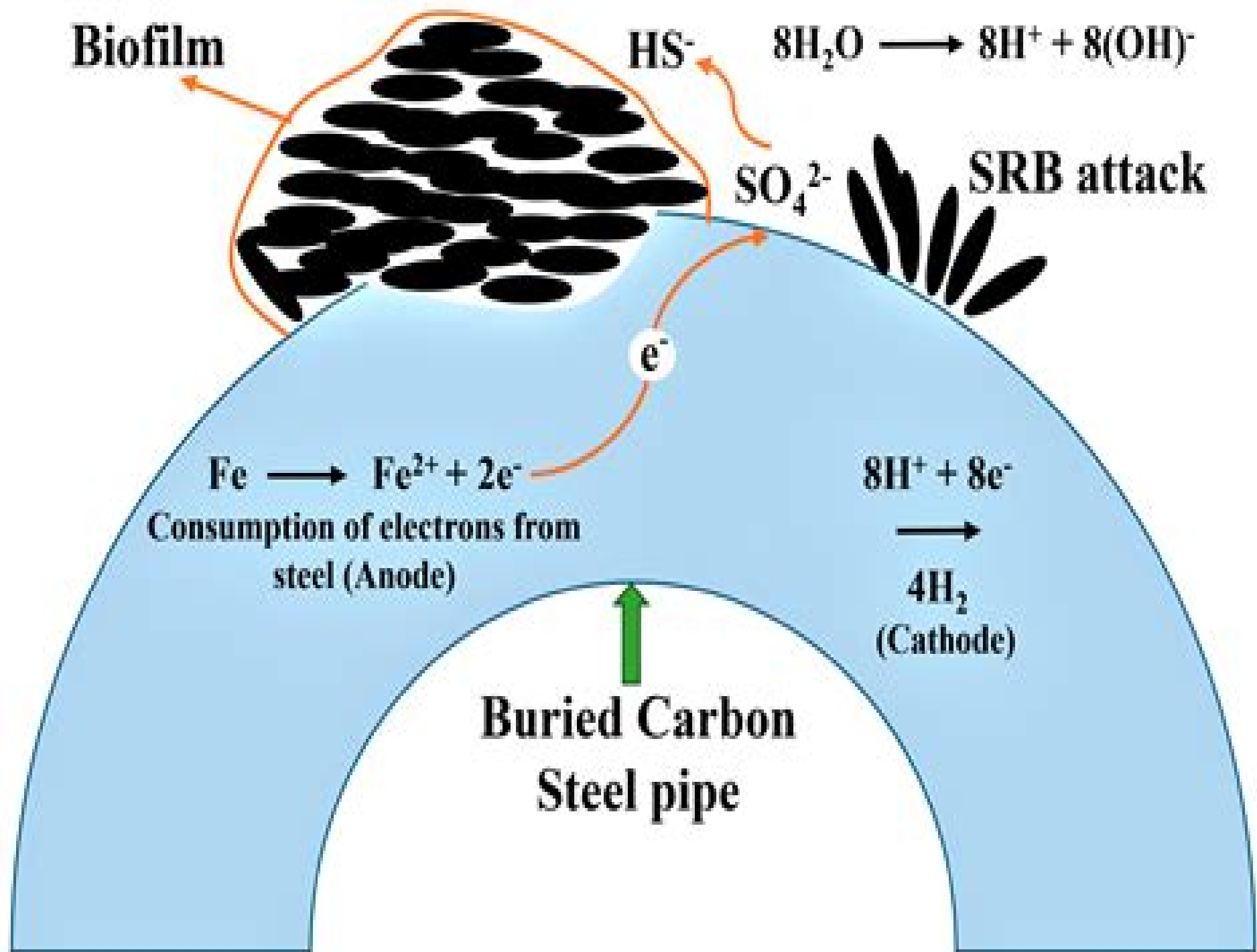
$\text{e}^-$



Consumption of electrons from  
steel (Anode)



**Buried Carbon  
Steel pipe**



# Microbiologically Influenced Corrosion

**Jeffery R. Kearns, Jeffrey R.  
Kearns, Brenda J. Little**



## **Microbiologically Influenced Corrosion:**

**Failure Analysis of Microbiologically Influenced Corrosion** Richard B. Eckert, Torben Lund Skovhus, 2021-11-07  
Failure Analysis of Microbiologically Influenced Corrosion serves as a complete guide to corrosion failure analysis with an emphasis on the diagnosis of microbiologically influenced corrosion MIC. By applying the principles of chemistry, microbiology, and metallurgy, readers will be able to reliably determine the mechanistic cause of corrosion damage and failures and select the appropriate methods for mitigating future corrosion incidents. **FEATURES** Provides background information on the forensic process types of data or evidence needed to perform the analysis; industrial case studies; details on the MIC failure analysis process and protocols for field and lab use; Presents up to date advances in molecular technologies and their application to corrosion failure investigations; Offers specific guidelines for conducting MIC failure analyses and case studies to illustrate their application; Examines state of the art information on MIC analytical tools and methods. With authors with expertise in microbiology, corrosion materials, and failure investigation, this book provides tools for engineers, scientists, and technologists to successfully combat MIC issues.

**Microbiologically Influenced Corrosion Handbook** Susan Watkins Borenstein, 1994  
This book provides fundamental background for understanding the interdisciplinary roles of microbiology, metallurgy, and electrochemistry as they relate to microbiologically influenced corrosion MIC. Discusses methods by which MIC can be detected and monitored as well as its prevention. Examines thoroughly how welding, heat treatment, and other metallurgical processes and variables affect corrosion resistance.

Microbiologically Influenced Corrosion Brenda J. Little, Jason S. Lee, 2007-03-31  
A multi-disciplinary, multi-industry overview of microbiologically influenced corrosion with strategies for diagnosis and control or prevention. Microbiologically Influenced Corrosion helps engineers and scientists understand and combat the costly failures that occur due to microbiologically influenced corrosion MIC. This book combines recent findings from diverse disciplines into one comprehensive reference. Complete with case histories from a variety of environments, it covers Biofilm formation; Causative organisms relating bacteria and fungi to corrosion mechanisms for groups of metals; Diagnosing and monitoring MIC; Electrochemical techniques with an overview of methods for detection of MIC; The impact of alloying elements including antimicrobial metals and design features on MIC; MIC of non-metals; Strategies for control or prevention of MIC including engineering, chemical, and biological approaches. This is a valuable all-inclusive reference for corrosion scientists, engineers, and researchers as well as designers, managers, and operators.

Microbiologically Influenced Corrosion Testing Jeffery R. Kearns, Jeffrey R. Kearns, Brenda J. Little, 1994  
The proceedings of the First International Symposium on the title held in Miami during November of 1992 comprise a keynote address and 21 papers arranged in six topical sections: electrochemical methods; on-line monitoring methods; surface analysis techniques; SRB characterization; non-metallic materials.

**A Practical Manual on Microbiologically Influenced Corrosion** Gregory Kobrin, 1993

**Microbiologically Influenced Corrosion** Reza Javaherdashti, 2008-02-20  
Microbiologically influenced

corrosion MIC is one of the greatest mysteries of corrosion science and engineering This book introduces a new approach to the basics of MIC and explains how to recognise understand mitigate and or prevent this type of corrosion The material covered will benefit professional and consultant engineers in power generating oil and gas and marine and mining industries It will also benefit researchers in a variety of fields      *Microbiologically Influenced Corrosion in the Upstream Oil and Gas Industry* Torben Lund Skovhus,Dennis Enning,Jason Lee,2017-03-03 Microorganisms are ubiquitously present in petroleum reservoirs and the facilities that produce them Pipelines vessels and other equipment used in upstream oil and gas operations provide a vast and predominantly anoxic environment for microorganisms to thrive The biggest technical challenge resulting from microbial activity in these engineered environments is the impact on materials integrity Oilfield microorganisms can affect materials integrity profoundly through a multitude of elusive bio chemical mechanisms collectively referred to as microbiologically influenced corrosion MIC MIC is estimated to account for 20 to 30% of all corrosion related costs in the oil and gas industry This book is intended as a comprehensive reference for integrity engineers production chemists oilfield microbiologists and scientists working in the field of petroleum microbiology or corrosion Exhaustively researched by leaders from both industry and academia this book discusses the latest technological and scientific advances as well as relevant case studies to convey to readers an understanding of MIC and its effective management      *Microbial Corrosion* C. A. C. Sequeira,2000 Papers on Microbially Influenced Corrosion in the Context of Metal Microbe Spatial and Temporal Relationships Between Localised Corrosion and Microstructural Features and the Microbiologically Influenced Corrosion to name a few from the 4th International EFC Workshop Lisbon Portugal 1999      **Microbially Influenced Corrosion of Materials** Ewald Heitz,Hans-Curt Flemming,Wolfgang Sand,1996-09-13 Corrosion has been largely considered to be caused only abiotically without regard of any biological influence However corrosion of organic materials metals minerals and plastics can be strongly influenced by microorganisms enhancing the kinetics of the corrosion processes This book presents case histories theoretical explanations and methods for the detection sanitation and prevention of biologically influenced corrosion      **A Pathological Mini-Atlas of Microbiologically Influenced Corrosion and Deterioration (MIC / MID) Cases** Reza Javaherdashti,2022-09-14 A Pathological Mini Atlas of Microbiologically Influenced Corrosion and Deterioration MIC MID cases authored and edited by Dr Reza Javaherdashti is a book that in collaboration with several international world known MIC professionals has been written to shed light on some areas of MIC MID that are still in the dark as well as designing a new systematic insight into the study of MIC MID phenomena      *Microbially Corrosion* C. A. C. Sequeira,2022-03-07 First published in 1995 This is the proceedings of the third international workshop on Microbial Corrosion by the European Federation of Corrosion Split into four sections covering an Interdisciplinary Approach to Microbially Influenced Corrosion of Copper Microbial Corrosion Mechanisms and General Studies Case Studies and Microbial Corrosion Prevention and Control      **Hydrostatic Testing, Corrosion, and Microbiologically Influenced**

**Corrosion** Reza Javaherdashti, Farzaneh Akvan, 2017-03-16 Hydrostatic Testing Corrosion and Microbiologically Influenced Corrosion A Field Manual for Control and Prevention teaches industry professionals managers and researchers how to combat corrosion failure associated with hydrotesting It discusses how a test liquid must be selected how corrosion by bacteria should be controlled and how to eliminate the risk of leakage Rather than teaching how hydrotests should be conducted it helps the reader evaluate the quality of a hydrotest that s already been conducted in terms of oxygen scavenger use biocide testing inhibitor addition and water quality and explains the tasks that top and middle management must ensure are taken with respect to corrosion assessment of hydrotesting The manual also discusses microbiologically influenced corrosion MIC as the main corrosion mechanism related to post hydrotesting and offers essential knowledge on combating this corrosion process In addition to being a manual for top and middle management on how to deal with corrosion this book also *Microbiologically Influenced Corrosion*, 1984 **Microbially Induced Corrosion and its Mitigation** Ajay K.

Singh, 2020-09-24 This brief covers case studies on Microbial Induced Corrosion MIC and its mitigation After reviewing the basics of corrosion it focuses on MIC MIC is a special type of electrochemical corrosion in which the presence of microbes and bacteria alters the chemistry of liquid media so as to make them more corrosive These changes are harmful to metallic equipment processing machinery marine vessels etc in an environment that is host to a wealth of microorganisms A 2007 US survey estimated corrosion related damages to cost 276 billion a year roughly 50% of which are due to MIC The industries most affected by MIC are power production oil exploration transportation and storage water distribution and more generally all industries involving marine environments However means for effectively preventing and controlling MIC are poorly understood As such the book s later chapters address various mechanisms processes that show promise with regard to MIC mitigation Lastly the book discusses the strategies currently being explored to mitigate MIC using green technologies

Failure Modes, Effects and Causes of Microbiologically Influenced Corrosion Reza Javaherdashti, Farzaneh Akvan, 2019-10-22 Failure Modes Effects and Causes of Microbiologically Influenced Corrosion Advanced Perspectives and Analysis presents academic research about microbial corrosion MIC integrating it into engineering applications that result in a more thorough understanding of MIC and how it is recognized and treated In addition new concepts that will be useful in understanding integrity and corrosion management practices are explored This book will be useful for industry professionals particularly maintenance and operation engineers corrosion and material engineers and R D personnel working in the field of corrosion protection Focuses on the skills and knowledge necessary to understand how Failure modes and why Effects and Causes materials fail Explains why corrosion control measures such as the use of coatings cathodic protection and inhibitors are useful Discusses the practical side of MIC treatment in terms of fundamental concepts of time and cost of operation

*Failure Analysis of Microbiologically Influenced Corrosion* Richard B. Eckert, Torben Lund Skovhus, 2021-11-07 Failure Analysis of Microbiologically Influenced Corrosion serves as a complete guide to corrosion failure analysis with an emphasis

on the diagnosis of microbiologically influenced corrosion MIC By applying the principles of chemistry microbiology and metallurgy readers will be able to reliably determine the mechanistic cause of corrosion damage and failures and select the appropriate methods for mitigating future corrosion incidents FEATURES Provides background information on the forensic process types of data or evidence needed to perform the analysis industrial case studies details on the MIC failure analysis process and protocols for field and lab use Presents up to date advances in molecular technologies and their application to corrosion failure investigations Offers specific guidelines for conducting MIC failure analyses and case studies to illustrate their application Examines state of the art information on MIC analytical tools and methods With authors with expertise in microbiology corrosion materials and failure investigation this book provides tools for engineers scientists and technologists to successfully combat MIC issues

**Introduction to Corrosion Mgmt of Microbiologically Influenced Corrosion**

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**Microbially Influenced Corrosion of Materials** Ewald Heitz, Hans-Curt

Flemming, Wolfgang Sand, 1996 Corrosion has been largely considered to be caused only abiotically without regard of any biological influence However corrosion of organic materials metals minerals and plastics can be strongly influenced by microorganisms enhancing the kinetics of the corrosion processes This book presents case histories theoretical explanations and methods for the detection sanitation and prevention of biologically influenced corrosion

Recent Advances in the Study of Microbiologically Influenced Corrosion, 1993 The study of microbiologically influenced corrosion MIC has progressed from phenomenological case histories to a mature interdisciplinary science including electrochemical metallurgical surface analytical microbiological biotechnological and biophysical techniques With gene probes and microelectrodes it is now possible to measure interfacial dissolved oxygen dissolved sulfide and pH and to further determine the microbial species responsible for the localized chemistry Biofilms can be tailored to contain consortia of specific microorganisms and naturally occurring biofilms can be dissected into cellular and extracellular constituents Scanning vibrating electrodes can be used to map the distribution of anodes and cathodes so that localized corrosion can be correlated with the location of microorganisms The development of environmental scanning electron atomic force and laser confocal microscopy makes it possible to image cells on surfaces and to accurately determine the spatial relationship between microorganisms and corrosion Transport of nutrients through biofilms is being modeled using techniques including optical density measurements to precisely locate the water biofilm interface and nuclear magnetic resonance imaging to visualize flow characteristics near surfaces colonized with microorganisms The way in which these now techniques can be used to understand fundamental mechanisms and to discriminate critical issues of MIC will be discussed Biofouling Corrosion Biodeterioration Electrochemistry

**Microbiologically Influenced Corrosion** Daniel H. Pope, 1984

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