

A Practical Manual on

Microbiologically Influenced Corrosion

Volume 2

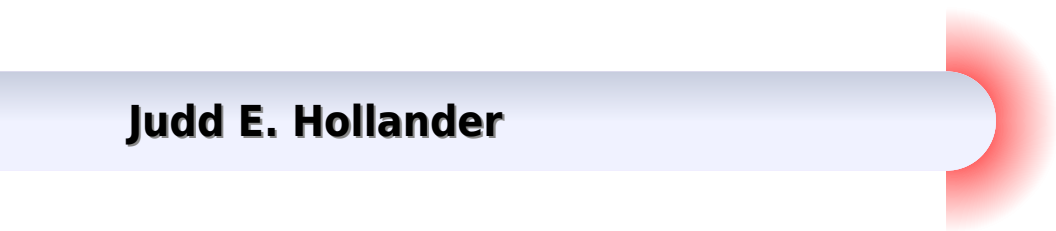


John G. Stoecker II, Editor



A Practical Manual On Microbiologically Influenced Corrosion Volume 2 V

Judd E. Hollander



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A Practical Manual on Microbiologically Influenced Corrosion Gregory Kobrin, John G. Stoecker, 2001

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 Microbiologically Influenced Corrosion Brenda J. Little, Jason S. Lee, 2007-03-30 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 metallics 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

Corrosion in the Petrochemical Industry, Second Edition , 2015-12-01 Originally published in 1994 this second edition of Corrosion in the Petrochemical Industry collects peer reviewed articles written by experts in the field of corrosion that were specifically chosen for this book because of their relevance to the petrochemical industry This edition expands coverage of the different forms of corrosion including the effects of metallurgical variables on the corrosion of several alloys It discusses protection methods including discussion of corrosion inhibitors and corrosion resistance of aluminum magnesium stainless steels and nickels It also includes a section devoted specifically to petroleum and petrochemical industry related issues **Uhlig's Corrosion Handbook** R. Winston Revie, 2011-04-12 This book serves as a reference for engineers scientists and students concerned with the use of materials in applications where reliability and resistance to corrosion are

important It updates the coverage of its predecessor including coverage of corrosion rates of steel in major river systems and atmospheric corrosion rates the corrosion behavior of materials such as weathering steels and newer stainless alloys and the corrosion behavior and engineering approaches to corrosion control for nonmetallic materials New chapters include high temperature oxidation of metals and alloys nanomaterials and dental materials anodic protection Also featured are chapters dealing with standards for corrosion testing microbiological corrosion and electrochemical noise

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

A Practical Manual on Microbiologically Influenced Corrosion John G. Stoecker, 2001

Metallurgy and Corrosion Control in Oil and Gas Production Robert Heidersbach, 2010-12-01 This book is intended for engineers and related professionals in the oil and gas production industries It is intended for use by personnel with limited backgrounds in chemistry metallurgy and corrosion and will give them a general understanding of how and why corrosion occurs and the practical approaches to how the effects of corrosion can be mitigated It is also an asset to the entry level corrosion control professional who may have a theoretical background in metallurgy chemistry or a related field but who needs to understand the practical limitations of large scale industrial operations associated with oil and gas production While the may use by technicians and others with limited formal technical training it will be written on a level intended for use by engineers having had some exposure to college level chemistry and some familiarity with materials and engineering design

Shreir's Corrosion, 2009-02-27 This four volume reference work builds upon the success of past editions of Elsevier s Corrosion title by Shreir Jarman and Burstein covering the range of innovations and applications that have emerged in the years since its publication Developed in partnership with experts from the Corrosion and Protection Centre at the University of Manchester Shreir s Corrosion meets the research and productivity needs of engineers consultants and researchers alike Incorporates coverage of all aspects of the corrosion phenomenon from the science behind corrosion of metallic and non metallic materials in liquids and gases to the management of corrosion in specific industries and applications Features cutting edge topics such as medical applications metal matrix composites and corrosion modeling Covers the benefits and limitations of techniques from scanning probes to electrochemical noise and impedance spectroscopy

Corrosion and Materials in the Oil and Gas Industries Reza Javaherdashti, Chikezie Nwaoha, Henry Tan, 2016-04-19 The advancement of methods and technologies in the oil and gas industries calls for new insight into the corrosion problems these industries face daily With the application of more precise instruments and laboratory techniques as well as the development of new scientific paradigms corrosion professionals are also witnessing a new era in the way d

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