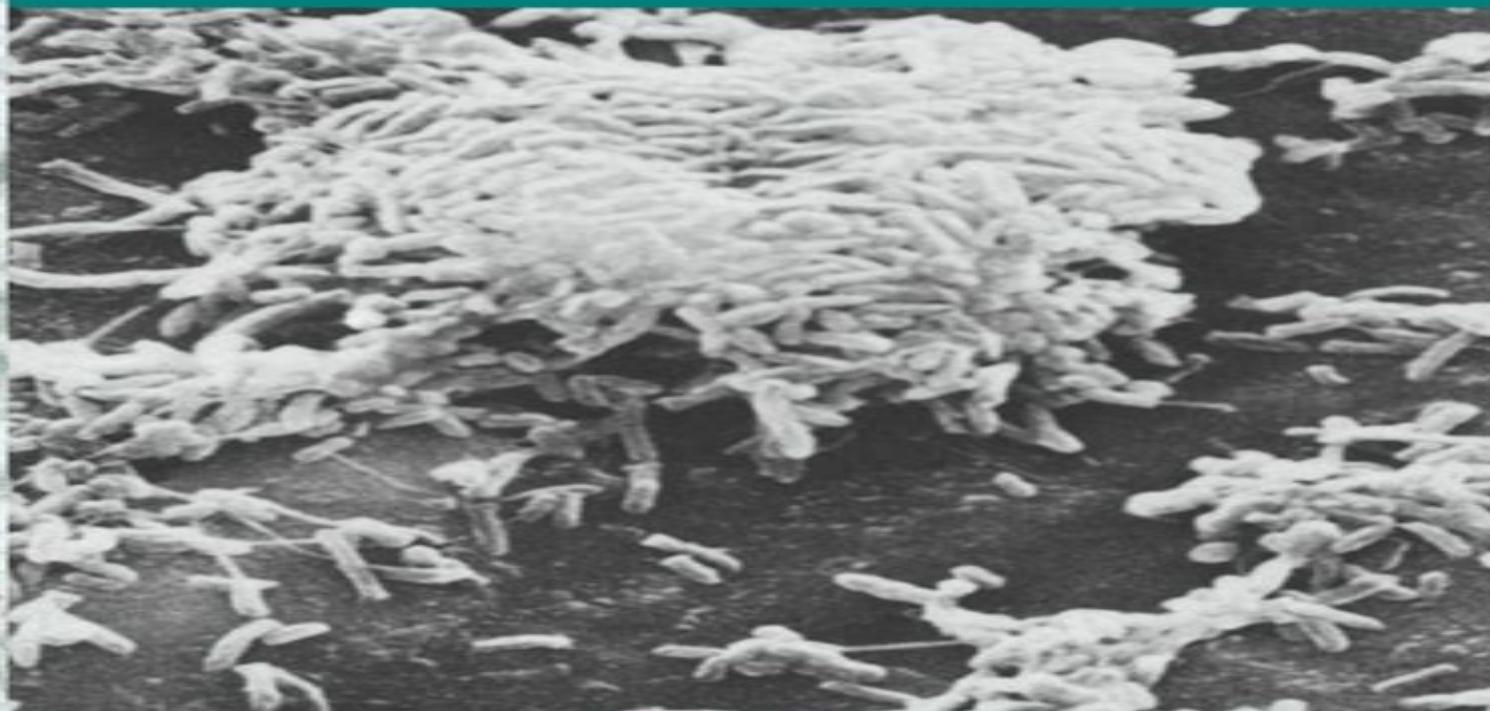


THE BIOLOGY OF WORLD RESOURCES SERIES

# Bioextraction and biodegradation of metals



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# Bioextraction And Biodeterioration Of Metals

**AW Chickering**



## **Bioextraction And Biodeterioration Of Metals:**

Bioextraction and Biodeterioration of Metals Christine C. Gaylarde, 1995-05-11 This book was first published in 1995. Interactions between microbes and metals have a huge economic importance. Metallic structures and apparatus can be corroded leading to reduced efficiency of operation and even danger to users. However, microorganisms have enormous potential for the removal of economically important metals from their ores. Specialists cover the different aspects of the subject in separate chapters which include marine corrosion and the prospects and management of biomining bacteria. The chemical and electrochemical aspects and the prospects for controlling the positive and negative effects of these microorganisms are covered in detail. Mining and oil industries engineers and researchers will find the contents of this book extremely pertinent. Researchers in biotechnology, metallurgy and microbiology will also find much of interest here.

*Bioextraction and Biodeterioration of Metals* C. Gaylarde Videla, 1992-03-01      **Manual of Biocorrosion** Hector A. Videla, 2018-04-27 The Manual of Biocorrosion explains the microbiology, electrochemistry and surface phenomena involved in biocorrosion and biofouling processes. Written primarily for non-specialists, the information in this manual is practical and offers a comprehensive look at the three components of biocorrosion: the microorganisms, the metal and the aqueous environment. It also addresses methods for the monitoring, prevention and control of biocorrosion. The first part of the book covers the fundamental aspects of microbiology, electrochemistry and biofouling of metal surfaces. The second half describes biocorrosion assessment in the laboratory and the field, the main control and mitigation procedures used, practical case studies and laboratory methods and formulations. The Manual of Biocorrosion is the book the industrial sector (water treatment plants, oil refineries etc.) has been waiting for, providing the basics for implementing prevention, control and mitigation procedures. In addition, it covers the latest industry trends with discussions of biocide selection strategies for treating biocorrosion without harming the environment and the latest monitoring programs. The academic sector will benefit as well from the up-to-date information on mechanisms and recent advances in all biocorrosion aspects and technology. Research trends such as the application of surface analysis techniques and modern electron microscopy, the use of conventional and innovative electrochemical techniques for assessment and microbial inhibition of corrosion are all considered. Features: 100 illustrations provide you with a visual understanding of the problems and techniques discussed; 30 tables give you quick access to data; 46 suggested readings provide references on books, conference and workshop proceedings and special issues of scientific journals and technical publications specifically devoted to biocorrosion and biofouling; 454 references.      **Trends in Corrosion Research**, 1997      *Control and Optimization in Minerals, Metals and Materials Processing* Canadian Institute of Mining, Metallurgy and Petroleum, 1999 This proceedings is a collection of papers from over 15 countries covering the latest research, development and industrial practices in the applications of data processing techniques, control and optimization of minerals, metals and materials processing plants.      **Trace Substances,**

**Environment and Health** ,1994      **Trace Substances, Environment and Health** C. Richard Cothorn,1994      **Survey of Literature on Crevice Corrosion (1979-1998)** F. P. IJsseling,2000 Crevice corrosion is a complex and technically interesting corrosion mechanism but its commercial significance should not be ignored This survey the most complete overview of crevice corrosion available today covers many alloys which can suffer crevice attack but focuses mainly on stainless steels The survey covers mechanisms test methods and results practical experience protective measures and monitoring

**Hydrometallurgy** S. Venkatachalam,1998 Hydrometallurgy has become increasingly important in the extraction of metals particularly for treating lean and complex ores Often the treatment of hydrometallurgy is brief in extraction metallurgy texts this volume seeks to fill the gap in the literature by focusing solely on all aspects of the aqueous processing of metals The book brings together the proceedings of many symposia seminars and conferences conducted on the topic

Safety Assessment of Transgenic Organisms ,2006 The goal of OECD Biosafety consensus documents is to identify elements of scientific information used in the environmental safety risk assessment of transgenic organisms which are common to OECD member countries This is intended to encourage information sharing and prevent duplication of effort among countries These two volumes bring together for the first time these Biosafety consensus documents in order for these documents to be distributed more widely and utilized more easily by intended users such as applicants for commercialization regulators in national authorities and researchers

*Proceedings of Corrosion/96 Research Topical Symposia* ,1996

Developments in Marine Corrosion S. A. Campbell,N. Campbell, Frank Walsh,1998 The diversity of subjects involved in marine corrosion and fouling processes are evident in the approaches and techniques described in this book An improved understanding of biologically influenced corrosion and fouling processes is essential to the development of better corrosion protection systems and this book shows new perspectives in our appreciation of these subjects Equally powerful microscopic imaging surface spectroscopy and electrochemical techniques have become available and are providing new information on metal surfaces experiencing fouling or microbial corrosion Examples include confocal laser microscopy scanning probe microscopy Fourier Transform infrared spectroscopy scanning electrochemical microscopy and scanning or vibrating reference electrode techniques Advances in our knowledge of biocorrosion processes have enabled improvements in corrosion monitoring and protection strategies Examples include metal or polymer coatings and the use of corrosion inhibitors and biocides This book aims to provide a valuable contribution to existing literature on biocorrosion in the marine environment

**Bioremediation of Inorganic Compounds** Andrea Leeson,2001 The symposium included 600 presentations in 50 sessions on bioremediation and supporting technologies used for a wide range of contaminants already in or poised to invade soil groundwater and sediment Three hundred and fifty two papers were selected and organized into ten volumes Volume nine s articles cover a variety of biological approaches for removal or sequestration of substances such as perchlorates heavy metals arsenic nitrates and acid mine drainage Articles average eight pages and contain abstracts and

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