

European Federation  
of Corrosion  
Publications

**Number 30**

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**SURVEY OF  
LITERATURE ON  
CREVICE CORROSION  
(1979-1998)**

**Mechanisms, Test Methods, and Results,  
Practical Experience,  
Protective Measures and Monitoring**

**F. P. Usseling**

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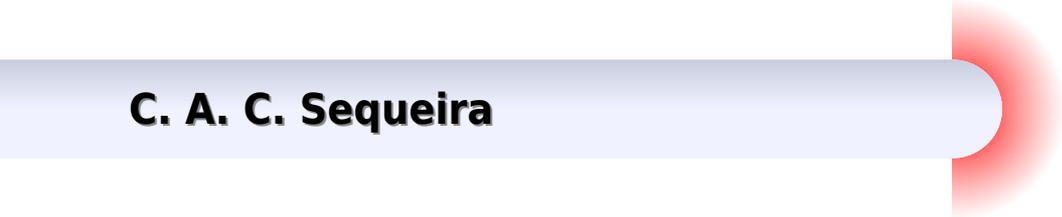


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**Survey Of Literature On Crevice Corrosion 19791998**  
**European Federation Of Corrosion Efc**

**C. A. C. Sequeira**



## **Survey Of Literature On Crevice Corrosion 1979-1998 European Federation Of Corrosion Efc:**

**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

*Understanding Biocorrosion* T Liengen, R Basseguy, Damien Feron, I Beech, V Birrien, 2014-11-14 Biocorrosion refers to corrosion influenced by bacteria adhering to surfaces in biofilms Biocorrosion is a major problem in areas such as cooling systems and marine structures where biofilms can develop This book summarises key recent research in this subject Part one looks at theories of biocorrosion and measurement techniques Part two discusses how bacteria and biofilms result in biocorrosion The final part of the book includes case studies of biocorrosion in areas as diverse as buildings fuels marine environments and cooling systems Provides a detailed overview of biocorrosion and the different scientific and or industrial problems related to microbially induced corrosion Introduces a variety of investigative techniques and methodologies that are employed in diagnosing and evaluating microbially induced corrosion Includes case studies on biodeterioration of building materials biocorrosion issues associated with diesel and biofuels marine biocorrosion corrosion of open recirculating cooling water systems and cooling system components the effect of H<sub>2</sub>S on steel corrosion

**Prediction of Long Term Corrosion Behaviour in Nuclear Waste Systems EFC 36** Damien Feron, 2024-11-01 Papers presented on prediction of long term corrosion behaviour in nuclear waste systems EFC Issue 36

*Marine Corrosion of Stainless Steels D. Féron*, 2021-04-14 This is Number 33 of the Marine Corrosion of Stainless Steels a publication of the European Federation of Corrosion EFC Part I of this volume on the Marine Corrosion of Stainless Steels consists of five chapters and is concerned with tests that were conducted in the 1990s on the corrosivity of European sea waters Atlantic Baltic English Channel Mediterranean and North Sea towards three types of stainless steels Results from these two test programmes were presented at a European Workshop on Sea Water Corrosion of Stainless Steels in Trondheim in 1996 and at various corrosion conferences mostly in Europe The other four chapters in Part I describe experimental procedures critical pitting temperature data crevice corrosion results and results from the MAST biofilm studies The remaining 23 chapters of the book are concerned with reviews and reports that develop the above topics

*A Working Party Report on Corrosion Resistant Alloys for Oil and Gas Production* European Federation of Corrosion, 2002 A revised and updated set of guidelines applicable to stainless steels nickel alloys and titanium alloys covering SSC SCC test procedures reference environments for SSC and SCC testing guidance on autoclave testing of CRAs procedures for testing CRAs exposed to sulphur and H<sub>2</sub>S

*Corrosion of Metallic Heritage Artefacts* P Dillmann, 2007-03-21 This work is broken down into four parts The first provides an overview the second covers the mechanisms of corrosion measurement and prediction techniques the third analyses archaeological

finds and part four focuses on monitoring and conservation Local Probe Techniques for Corrosion Research R Oltra,2007-03-09 This text contains chapters on SVET local analysis of aerobic corrosion studying delamination of organic coatings using local electrical impedance analysis of pitting corrosion using STM and AFM analysing atmospheric corrosion of low alloy steels and more *The British National Bibliography* Arthur James Wells,2000 **A Working Party Report on the Use of Corrosion Inhibitors in Oil and Gas Production** J. W. Palmer,W. Hedges,J. L. Dawson,2004 This practical industry oriented guide has been compiled to meet the needs of personnel employed by operators design engineers contractors and chemical suppliers working in the oil and gas industry The document draws on the experience of specialists employed in various organisations and incorporates appropriate industry and in company guidelines Both technical and management issues are addressed and key points are provided at the end of each chapter to aid in the assimilation of the many and varied aspects that contribute to successful corrosion inhibition **BOOK JACKET Corrosion of Reinforcement in Concrete** J. Mietz,R. Polder,Bernhard Elsener,2000 This book compiles the full papers presented in the successful session Corrosion of Steel in Concrete at EUROCORR 97 It highlights the areas of technical development in this field including monitoring of steel reinforcement corrosion prevention of corrosion and electrochemical repair methods Corrosion Inhibitors for Steel in Concrete Bernhard Elsener,2001 The use of inhibitors for rehabilitation of reinforced concrete structures is a new field of application and this new volume provides a State of the Art Report on this subject Corrosion of steel in concrete is one of the major problems for infrastructure such as bridges tunnels housing etc since it leads to spalling of the concrete and loss in cross section of the steel that may cause structural and safety problems The steel in concrete generally resists corrosion as a result of a passive layer that develops on the metal surface in the alkaline environment of the concrete Corrosion can occur if these conditions are disturbed for example in the presence of chlorides or with carbonation of concrete Traditional repair methods consist in removing the deteriorated concrete and replacing it but these can be laborious noisy and very costly To avoid these disadvantages new methods have been developed in recent years These include electrochemical procedures and increasingly the use of inhibitors The use of inhibitors for rehabilitation of reinforced concrete structures is a new field of application and this new volume provides a State of the Art Report on this subject The report under the editorship of Prof Bernhard Elsener was prepared by a Task Group of the EFC Working Party on Corrosion of Reinforcement in Concrete In a literature review it describes inorganic and organic chemicals that have been proposed and examined as well as the commercial corrosion inhibitors that are available on the market Protection mechanism and possible effects of inhibitors on concrete properties are described Practical experience with inhibitors for steel in concrete and the long term effectiveness are considered The various test methods for evaluating the behaviour of the inhibitors are described and critically assessed In a rapidly evolving field this State of the Art Report based mainly on independent not commercial literature will be of value to corrosion engineers and civil engineers concerned with maintenance and repair of

reinforced concrete structures      *The Progress in Corrosion - The First 50 Years of the EFC* Paul McIntyre,2024-11-15 This book focuses on developments during the first fifty years of existence of the European Federation of Corrosion and describes the contributions made by its working parties      *European Federation of Corrosion Publications* ,1990      *Progress in Corrosion* Jörg Vogelsang,2009      *Congress of the European Federation of Corrosion* European Federation of Corrosion,Fédération Européenne de la Corrosion,1981      **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      B0526 Microbial Corrosion (Efc 8) ,2014-05-14 This report covers mechanism metallurgical factors analysis experimental control case histories and non metallic materials basic electrochemical concepts biosensors voltammetry microbial corrosion of stainless steel and copper new types of microbial corrosion including biofilms microbial biodeterioration of non metallic material notably in an architectural context

**EUROCORR '87** European Federation of Corrosion,1987      Experimental and Theoretical Study of Inclusions During Initiation of Crevice Corrosion Stephen Elder Lott,1987      *Corrosion Under Insulation (CUI) Guidelines* Gino De Landtsheer,2020-08-22 *Corrosion Under Insulation CUI Guidelines Technical Guide for Managing CUI Third Edition Volume 55* builds upon the success of the first two editions to provide a fully up to date practical source of information on how to monitor and manage insulated systems In the first edition of this book published in 2008 the EFC Working Parties WP13 and WP15 engaged together to provide guidelines on managing CUI with contributions from a number of European refining petrochemical and offshore companies The guidelines were intended for use on all plants and installations that contain insulated vessels piping and equipment and cover a risk based inspection methodology for CUI inspection techniques and recommended best practices for mitigating CUI The guidelines include design of plant and equipment coatings and the use of thermal spray techniques types of insulation cladding jacketing materials and protection guards Corrosion under insulation CUI refers to the external corrosion of piping and vessels that occurs underneath externally clad jacketed insulation as a result of the penetration of water By its very nature CUI tends to remain undetected until the insulation and cladding jacketing is removed to allow inspection or when leaks occur CUI is a common problem shared by the refining petrochemical power industrial onshore and offshore industries Provides revised and updated technical guidance on managing CUI provided by EFC Working Parties 13 and 15 Discusses the standard approach to risk based inspection methodology Presents the argument that CUI is everywhere and looks at mitigating actions that can be started from the onset Includes a wide array of concepts of corrosion mitigation

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