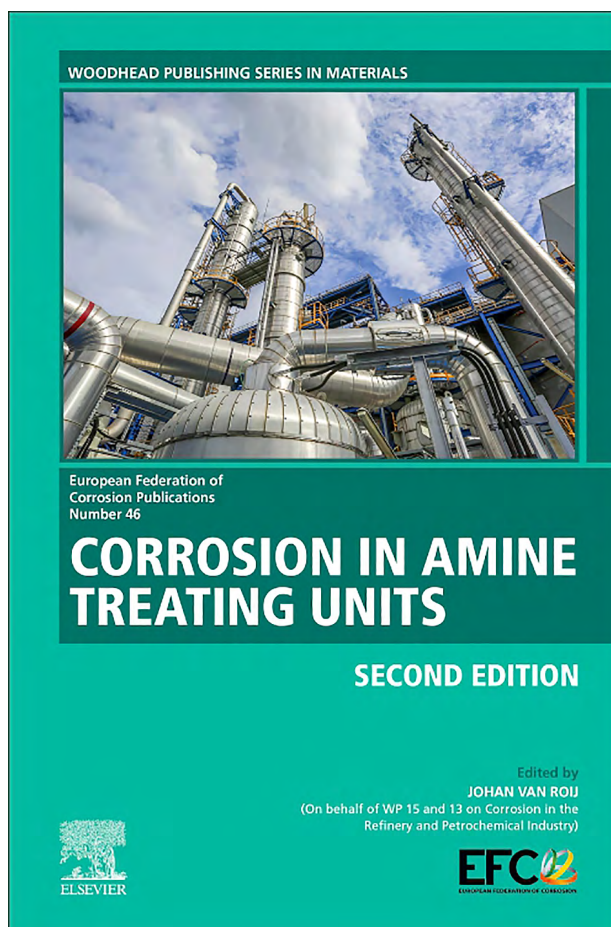


The EFC books series announcement

CORROSION IN AMINE TREATING UNITS 2nd edition



ISBN: 9780323997249

Previous ISBN: 9781845692377, 9780081005163

Publish date: Oct 28, 2021

List price: £155.00 / \$200.00 / €175.00

Format: Hardback

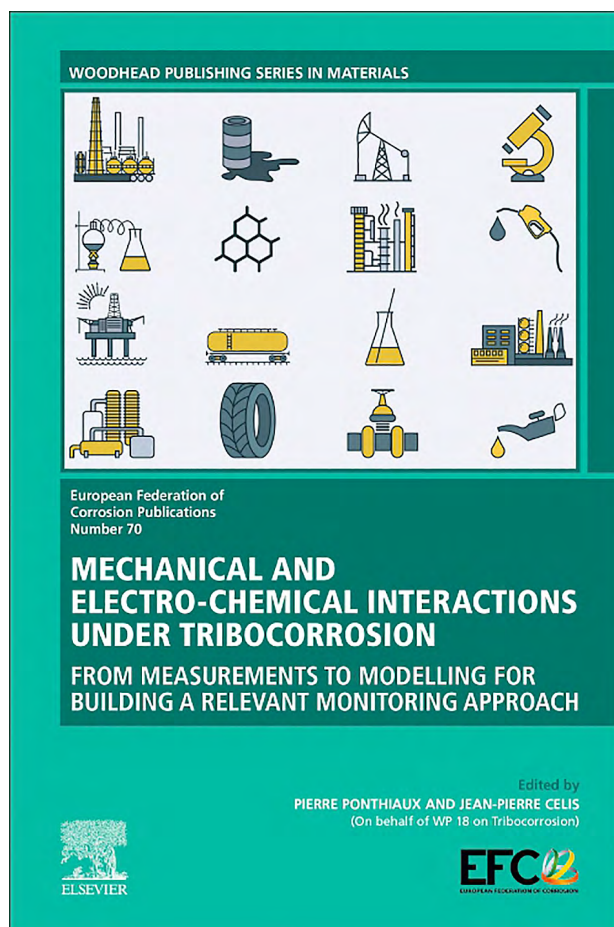
Trim: 6 w × 9 h

Pages: c. 172

Audience: Physico-chemical researchers and engineers, electromechanical researchers and engineers; Graduate students

Corrosion in Amine Treating Units, Second Edition presents a fully updated resource with a broadened focus that includes corrosion in not only refining operations, but also in oil and gas production. New sections have been added on inhibition, corrosion modeling and metallic coatings. More detailed descriptions of the degradation mechanisms and Integrity Operating Windows (IOW) are now included, as is more in-depth information on guidelines for what sections and locations are most vulnerable to corrosion and how to control corrosion in amine units e.g., using corrosion Loop descriptions and providing indicative integrity operating windows for operation to achieve a suitable life expectancy.

MECHANICAL AND ELECTRO-CHEMICAL INTERACTIONS UNDER TRIBOCORROSION



ISBN: 9780128237656

Previous ISBN: 9781845692377, 9780081005163

Publish date: Aug 26, 2021

List price: £165.00 / \$215.00 / €190.00

Format: Hardback

Trim: 6 w × 9 h

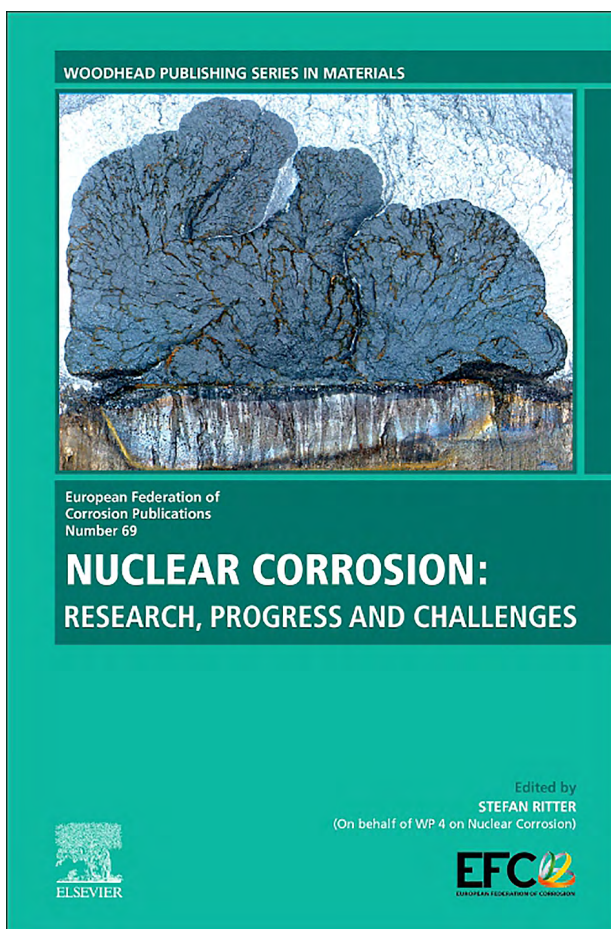
Pages: c. 262

Illustrations: 235 illustrations (150 in full color)

Audience: Physico-chemical researchers and engineers, electromechanical researchers and engineers. Graduate students

Mechanical and Electro-chemical Interactions under Tribocorrosion: From Measurements to Modelling for Building a Relevant Monitoring Approach looks at progress in the field of tribocorrosion. The work is a result of the efforts of the European tribocorrosion community gathered under the auspices of the European Corrosion Federation (EFC) within WP18 Tribocorrosion. In addition to the handbook, *Testing Tribocorrosion of Passivating Materials Supporting Research and industrial Innovation* published in 2012, this release describes the latest scientific approaches recognized and validated experimentally to address tribocorrosion. Sections look at the phenomena of coupling through an understanding of the associated mechanisms and how to identify variables. Final sections cover strategies to control and/or extend the life of structures in a multi-process coupling situation and an in-depth description of the current state-of-the-art on modeling approaches of tribocorrosion.

NUCLEAR CORROSION, VOL 69 Research, Progress and Challenges



ISBN: 9780128237199

Publish date: Aug 15, 2020

List price: £200.00 / \$260.00 / €230.00

Format: Hardback

Trim: 6 w × 9 h

Pages: c. 472

Audience: Materials Scientists and Engineers in the field of nuclear energy. Chemists and chemical engineers, Graduate students

Nuclear Corrosion: Research, Progress and Challenges, part of the “Green Book” series of the EFC, builds upon the foundations of the very first book published in this series in 1989 (“Number 1 - Corrosion in the Nuclear Industry”). This newest volume provides an overview on state-of-the-art research in some of the most important areas of nuclear corrosion. Chapters covered include aging phenomena in light water reactors, reprocessing plants, nuclear waste disposal, and supercritical water and liquid metal systems. This book will be a vital resource for both researchers and engineers working within the nuclear field in both academic and industrial environments.

CORROSION UNDER INSULATION (CUI) GUIDELINES

3rd edition



ISBN: 9780128233320

Previous ISBN: 9780081007143

Publish date: Aug 19, 2020

List price: £170.00 / \$220.00 / €195.00

Format: Hardback

Trim: 6 w × 9 h

Pages: c. 164

Audience: Engineers in the refining, petrochemical, power, industrial, onshore and offshore industries

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.