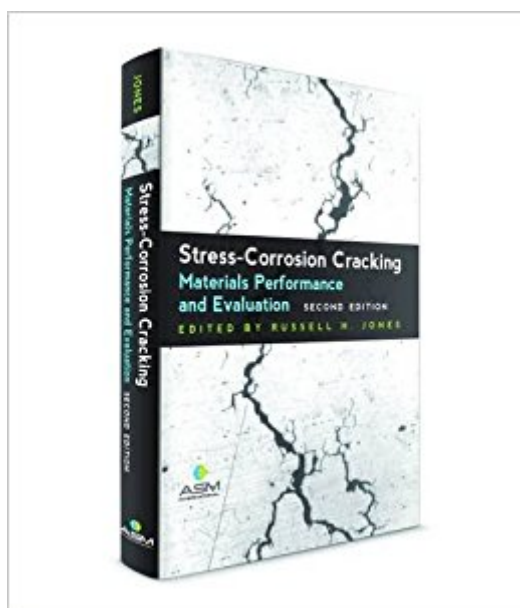


The book was found

# Stress-Corrosion Cracking: Materials Performance And Evaluation, Second Edition



## Synopsis

This new second edition serves as a go-to reference on the complex subject of stress corrosion cracking (SCC), offering information to help metallurgists, materials scientists, and designers determine whether SCC will be an issue for their design or applications; and for the failure analyst to help determine if SCC played a role in a failure under investigation. Research conducted over the last 20 years warranted new coverage on crack tip chemistry analysis and modeling, SCC of low strength steels in alcohol, SCC in new high strength steels, new data in SCC of stainless steels and nickel-based alloys, SCC of copper alloys in potable water, and hydrogen induced cracking of aluminium alloys. Additional case studies and a section on high strength low alloy steels were added. An appendix of relevant standards pertaining to SCC is also included. The book details the many conditions under which SCC can occur, the parameters which control SCC, and methodologies for mitigating and testing for SCC, plus information on the mechanism of SCC with experimental data on a variety of materials. It contains information about the environmental, mechanical, microstructural and chemical aspects of SCC to help predict and prevent component failure. Chapters include coverage of SCC in these materials: carbon, and low-alloy steels; high-strength steels; stainless steels; nickel-base alloys; copper alloys; magnesium alloys; titanium alloys; zirconium alloys; uranium alloys; amorphous alloys; and glasses and ceramics.

## Book Information

Hardcover: 500 pages

Publisher: ASM International; Second edition (January 31, 2017)

Language: English

ISBN-10: 1627081186

ISBN-13: 978-1627081184

Shipping Weight: 1.7 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,657,819 in Books (See Top 100 in Books) #53 in Books > Engineering &

Transportation > Engineering > Materials & Material Science > Fracture Mechanics #136

in Books > Engineering & Transportation > Engineering > Materials & Material Science > Strength

of Materials #140 in Books > Engineering & Transportation > Engineering > Materials & Material

Science > Testing

[Download to continue reading...](#)

Stress-Corrosion Cracking: Materials Performance and Evaluation, Second Edition Advances in

Corrosion Science and Technology: Volume 6 (Advances in Corrosion Science & Technology)  
Handbook Of Biomaterials Evaluation: Scientific, Technical And Clinical Testing Of Implant  
Materials, Second Edition Magical Swear Word. Adult Coloring Books: Relaxation and Stress  
reduction: 30 Stress Relieving Magical Sweary Designs : flowers, mandalas, patterns. ... Anxiety  
and Stress (Swear Word Coloring Book) Cracking the MAT, 2nd Edition (Princeton Review:  
Cracking the MAT) Adult Coloring Books: Mandala for a stress relieving experience (mandalas,  
stress relief, reduce stress, coloring books, relax) Principles and Prevention of Corrosion (2nd  
Edition) PPE Preparticipation Physical Evaluation (AAP, PPE- Preparticipation Physical Evaluation)  
So Damn Much Money: The Triumph of Lobbying and the Corrosion of American Government  
Corrosion Control in the Oil and Gas Industry Two-Phase Cooling And Corrosion In Nuclear Power  
Plants Materials North American Edition w/Online Testing: Materials - North American Edition,  
Second Edition: engineering, science, processing and design The Boatowner's Guide to Corrosion  
The Corrosion of Character: The Personal Consequences of Work in the New Capitalism Intelligent  
Coatings for Corrosion Control Handbook of Corrosion Engineering 2/E Introduction to Corrosion  
Science Bank Valuation and Value Based Management: Deposit and Loan Pricing, Performance  
Evaluation, and Risk, 2nd Edition (Business Books) Engineering Materials 3: Materials Failure  
Analysis: Case Studies and Design Implications (International Series on Materials Science and  
Technology) (v. 3) Measurement and Evaluation in Human Performance With Web Study Guide 5th  
Edition

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)