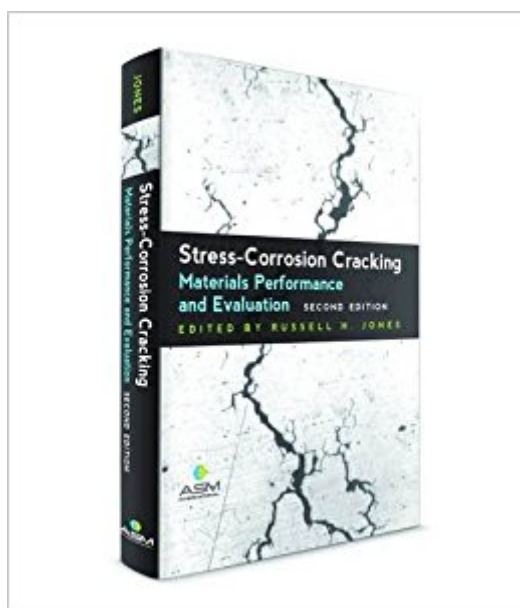


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Stress-Corrosion Cracking: Materials Performance And Evaluation, Second Edition



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.

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