

STRESS CORROSION CRACKING OF PIPELINES CHENG Y FRANK%0A

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Stress Corrosion Cracking of Pipelines begins with a brief introduction and then explores general principals of stress corrosion cracking, including two detailed case studies of pipeline failure. Next, the author covers:

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High pH stress corrosion cracking of pipelines; Stress corrosion cracking of pipelines in acidic soil environments; Stress corrosion cracking at pipeline welds; Stress corrosion cracking of high-strength pipeline steels. The final chapter is dedicated to effective management and mitigation of pipeline stress corrosion cracking.

Throughout the book, the author develops a number of theoretical models and concepts based on advanced microscopic electrochemical measurements to help readers better

Y. (Frank) Cheng | Research | University of Calgary
Frank Cheng, Stress Corrosion Cracking of Pipelines, John Wiley Publishing, Hoboken, NJ, 2013. 2. Da Kuang, Y. Frank Cheng, Study of cathodic protection shielding under coating disbondment on pipelines, Corrosion Science 99 (2015) 249-257.

[What Causes Stress Corrosion Cracking In Pipelines?](#)

Stress corrosion cracking (SCC) is a type of environmentally-assisted cracking (EAC), or the formation of cracks caused by various factors combined with the environment surrounding the pipeline. SCC occurs as a result of a combination between corrosion and tensile stress.

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Explains why pipeline stress corrosion cracking happens and how it can be prevented Pipelines sit at the heart of the global economy. When they are in good working order, they deliver fuel to meet the ever-growing demand for energy around the world.

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Y. FRANK CHENG, PhD, is Professor and Canada Research Chair in Pipeline Engineering at the University of Calgary. Dr. Cheng has published over 115 journal articles dedicated to corrosion, pipeline engineering, and materials science.

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About the Author: Y. FRANK CHENG, PhD, is Professor and Canada Research Chair in Pipeline Engineering at the University of Calgary. Dr. Cheng has published over 115 journal articles dedicated to corrosion, pipeline engineering, and materials science.

4 Understanding Stress Corrosion Cracking (SCC) in Pipelines

4 Understanding Stress Corrosion Cracking (SCC) in Pipelines 4.1 Scope Statement Compile a report summarizing the history of SCC on pipelines, explaining the causes and factors contributing to SCC initiation and growth, and discussing methods for prevention, detection and mitigation of SCC on pipelines, including effectiveness of ILI tools and other in-the-hole examination methods to

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Stress corrosion cracking of pipelines in acidic soil environments. Stress corrosion cracking at pipeline welds. Stress corrosion cracking of high-strength pipeline steels. The final chapter is

Stress Corrosion Cracking Recommended Practices

The discovery of a new form of stress corrosion cracking (SCC) in the early 1980s on a CEPA member pipeline posed a new and little understood integrity issue for this particular pipeline.