



## Corrosion and Materials in the Oil and Gas Industries

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The advancement of methods and technologies in the oil and gas industries calls for new insight into the corrosion problems these industries face daily. With the application of more precise instruments and laboratory techniques as well as the development of new scientific paradigms, corrosion professionals are also witnessing a new era in the way data are gathered and interpreted. **Corrosion and Materials in the Oil and Gas Industries** draws on state-of-the-art corrosion and materials technology as well as integrity management to offer guidance on dealing with aging and life extension in the oil and gas industries.

### *Get Expert Insights on Corrosion Identification, Prevention, and Mitigation*

The book features contributions by engineers, scientists, and business managers from around the world, including major oil- and gas-producing and -exporting countries. Organized into four parts, the book first provides introductory and background information. The second part explains the properties of construction materials and the underlying mechanisms of degradation, including a chapter on microbiologically influenced corrosion. The third part of the book delves into inspection and maintenance issues, examining material selection, corrosion prevention strategies, and the role of design. It also supplies models to help you estimate corrosion damage and select mitigation and monitoring techniques. The fourth part tackles corrosion hazards, safety and risk, and reliability. It also links corrosion mitigation and the management of asset integrity, highlighting the need for companies to maintain their infrastructure to remain competitive.

### *Interpret Field Findings More Confidently and Discover Solutions to Your Corrosion Problems*

Throughout, this richly illustrated book combines theory with practical strategies and examples from industry. As infrastructure ages and is pushed beyond its original design life to meet increasing energy demands, it is essential that those responsible for managing the infrastructure have a thorough understanding of material degradation and corrosion. This book is an invaluable reference for anyone involved in corrosion management and materials selection, particularly in the oil and gas industries, whether upstream, midstream, or downstream.

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