



Metallurgy and Corrosion Control in Oil and Gas Production

By Robert Heidersbach

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This book is intended for engineers and related professionals in the oil and gas production industries. It is intended for use by personnel with limited backgrounds in chemistry, metallurgy, and corrosion and will give them a general understanding of how and why corrosion occurs and the practical approaches to how the effects of corrosion can be mitigated. It is also an asset to the entry-level corrosion control professional who may have a theoretical background in metallurgy, chemistry, or a related field, but who needs to understand the practical limitations of large-scale industrial operations associated with oil and gas production. While the may use by technicians and others with limited formal technical training, it will be written on a level intended for use by engineers having had some exposure to college-level chemistry and some familiarity with materials and engineering design.

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Editorial Review

Review

“University teachers, scientists and researchers and in particular their undergraduate and postgraduate students, preparing their graduate theses will benefit from reading, employing and owing this well-organized volume.” (*Materials and Corrosion*, 1 November 2012)

"Overall I liked this book. Most professional books are not cheap and neither is this one. However, whereas I have found many such books do not altogether justify their price tags, this one does." (TCE- The Chemical Engineer, 1 November 2011)

"It is also an asset to the entry-level corrosion control professional who may have a theoretical background in metallurgy, chemistry, or a related field, but who needs to understand the practical limitations of large-scale industrial operations associated with oil and gas production." (Breitbart.com: Business Wire, 22 February 2011)

From the Back Cover

Expert guidance on the proper use of technology to assess, prevent, and reduce corrosion plaguing the oil industry

This practical guide for engineers and related professionals in the oil and gas production industries gives an insightful overview of why corrosion occurs in metals in drilling, producing wells, and pipelines; what responses are required when corrosion surfaces; and how the spread of corrosion can be greatly minimized by putting proper corrective measures in place.

Beginning with discussion of basic theoretical concepts associated with metallurgy and electro-chemistry, *Metallurgy and Corrosion Control in Oil and Gas Production* offers an all-encompassing perspective with useful lessons emphasizing the key roles of both the chemical and material aspects of corrosion. It teams reliable tactics with cutting-edge technologies to guide oil industries in formulating a battle plan to protect valuable equipment—from drilling rigs to the pipelines themselves—against the ferocious tenacity of ocean waters.

Dealing with subjects not taught in most formal classroom settings, this enlightening text:

- Contains detailed photographs to illustrate descriptions in the text
- Offers an introduction to corrosion for entry-level corrosion control specialists
- Addresses corrosion technologies such as corrosion inhibitors and cathodic protection in greater detail than in any other currently available reference book
- Provides guidance on the appropriate materials selection and corrosion control methods appropriate for use by oilfield engineers and managers
- Explains what inspection and monitoring techniques can, and cannot, do to address corrosion and reliability issues

A significant and much-needed addition to an industry beset by technological and financial challenges, *Metallurgy and Corrosion Control in Oil and Gas Production* offers responsible solutions that oil companies

can apply immediately to repress corrosion—and turn a major concern into a manageable one.

About the Author

Robert Heidersbach, PhD, is the President of Dr. Rust, Inc., a consulting firm that specializes in corrosion, metallurgy, and materials consulting for a variety of international clients, including oil and gas production, military hardware, construction, litigation, and failure analysis. He was previously a faculty member in ocean engineering at the University of Rhode Island, chemical engineering at Oklahoma State, and metallurgy and materials engineering at California Polytechnic State University.

Users Review

From reader reviews:

Rosemary Taylor:

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