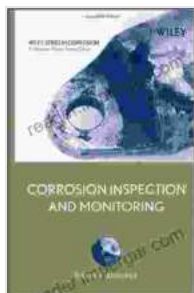


Corrosion Inspection and Monitoring: The Essential Guide for Engineers and Technicians



Corrosion Inspection and Monitoring (Wiley Series in Corrosion Book 2) by Pierre R. Roberge

★★★★☆ 4.7 out of 5

Language	: English
File size	: 7359 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Word Wise	: Enabled
Print length	: 368 pages
Lending	: Enabled
X-Ray for textbooks	: Enabled
Hardcover	: 140 pages
Item Weight	: 9.9 ounces
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Overview

Corrosion is a major problem for industries and economies worldwide. The estimated cost of corrosion in the United States alone is over \$276 billion per year. Corrosion can cause significant damage to infrastructure, equipment, and products, and can also lead to safety hazards and environmental problems.

Corrosion inspection and monitoring are essential for preventing and mitigating the effects of corrosion. By regularly inspecting and monitoring corrosion-prone structures and components, engineers and technicians can

identify areas of concern and take steps to prevent or slow down the corrosion process.

What is Corrosion Inspection and Monitoring?

Corrosion inspection and monitoring are the processes of examining materials and structures for signs of corrosion, and then taking steps to prevent or slow down the corrosion process. Corrosion inspection can be performed visually, using non-destructive testing methods, or using a combination of both methods.

Non-destructive testing methods for corrosion inspection include:

- Ultrasonic testing
- Radiography
- Acoustic emission testing
- Magnetic particle testing
- Eddy current testing

Corrosion monitoring can be performed using a variety of methods, including:

- Corrosion coupons
- Linear polarization resistance
- Electrochemical impedance spectroscopy
- Acoustic emission monitoring
- Remote monitoring systems

Why is Corrosion Inspection and Monitoring Important?

Corrosion inspection and monitoring are important for a number of reasons, including:

- To prevent or slow down the corrosion process
- To identify areas of concern and take steps to prevent or mitigate the effects of corrosion
- To ensure the safety and reliability of infrastructure, equipment, and products
- To reduce the cost of corrosion

Who Should Read This Book?

This book is intended for engineers, technicians, and researchers who are involved in the inspection and monitoring of corrosion-prone structures and components. This book is also a valuable resource for students who are interested in learning about corrosion inspection and monitoring.

What is Included in This Book?

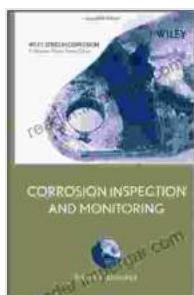
This book covers the following topics:

- The principles of corrosion
- The methods and techniques of corrosion inspection
- The methods and techniques of corrosion monitoring
- The applications of corrosion inspection and monitoring
- The case studies of corrosion inspection and monitoring

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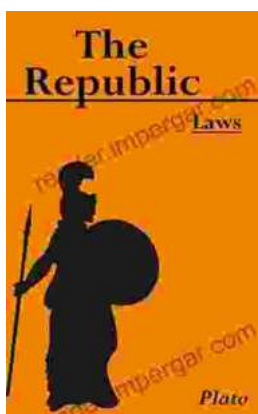
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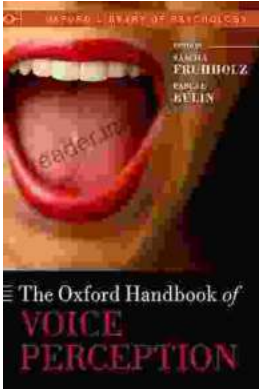
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