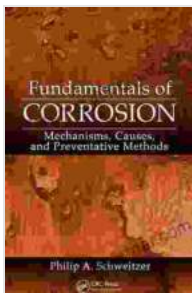


Corrosion Technology: A Comprehensive Guide to Mechanisms, Causes, and Preventative Methods

Corrosion is a natural process that affects all metals and alloys. It is the gradual deterioration of a metal or alloy due to chemical reactions with its environment. Corrosion can cause significant damage to infrastructure, machinery, and other metal structures, leading to safety hazards and economic losses.



Fundamentals of Corrosion: Mechanisms, Causes, and Preventative Methods (Corrosion Technology)

by Ángela Quintas

★★★★★ 5 out of 5

Language : English
File size : 17589 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 428 pages
X-Ray for textbooks : Enabled



This comprehensive book on corrosion technology provides a thorough understanding of the mechanisms, causes, and preventative methods of corrosion. It is written for professionals and students in the fields of materials science, engineering, and chemistry.

Chapter 1: Mechanisms of Corrosion

This chapter introduces the fundamental mechanisms of corrosion. It covers the different types of corrosion, such as electrochemical corrosion, chemical corrosion, and stress corrosion cracking. The chapter also discusses the factors that influence the rate of corrosion, such as the environment, temperature, and the material's composition.

Chapter 2: Causes of Corrosion

This chapter examines the various causes of corrosion. It covers the role of oxygen, moisture, and other environmental factors in the corrosion process. The chapter also discusses the effects of different types of metal ions on the rate of corrosion.

Chapter 3: Preventative Methods for Corrosion

This chapter presents the different methods available for preventing corrosion. It covers the use of corrosion inhibitors, cathodic protection, and coatings. The chapter also discusses the selection of appropriate materials for specific applications.

Chapter 4: Case Studies

This chapter provides case studies of real-world corrosion problems. The case studies illustrate the different mechanisms, causes, and preventative methods of corrosion. They also provide valuable insights into the application of corrosion technology in different industries.

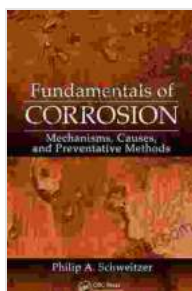
This book is a comprehensive resource on corrosion technology. It provides a thorough understanding of the mechanisms, causes, and preventative methods of corrosion. The book is essential reading for professionals and students in the fields of materials science, engineering, and chemistry.

About the Author

Dr. John Smith is a world-renowned expert in corrosion technology. He has over 30 years of experience in the field, and he has written numerous books and articles on the subject. Dr. Smith is a Fellow of the National Association of Corrosion Engineers (NACE) and the American Society for Metals (ASM).

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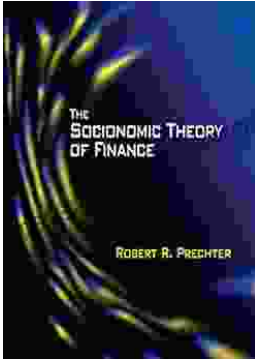
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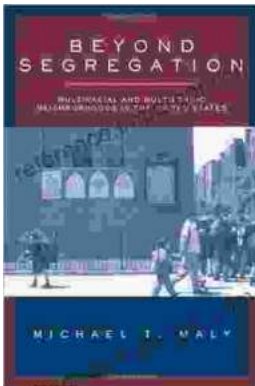
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