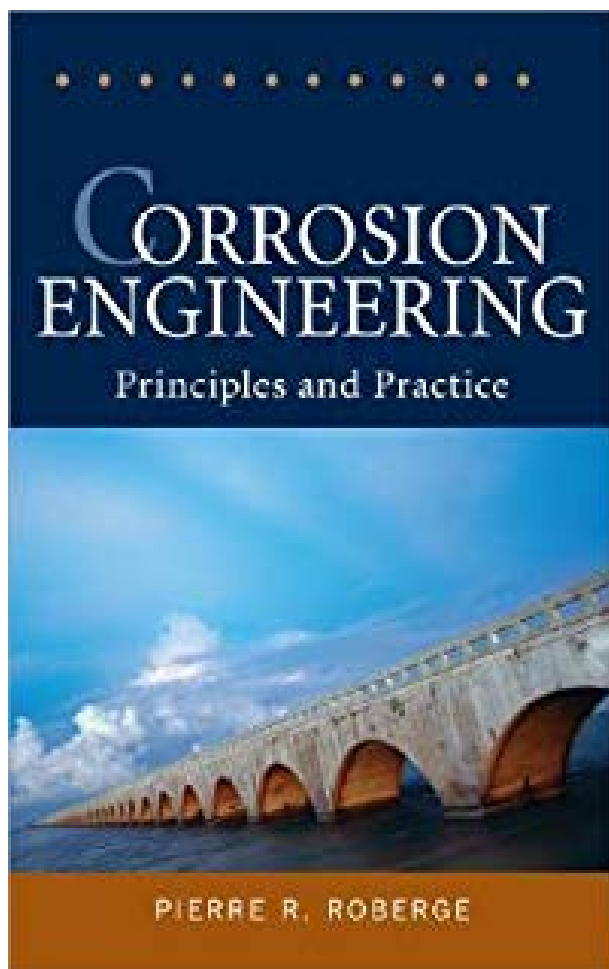


Corrosion Engineering: Principles and Practice



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The Latest Methods for Preventing and Controlling Corrosion in All Types of Materials and Applications
Now you can turn to Corrosion Engineering for expert coverage of the theory and current practices you need to understand water, atmospheric, and high-temperature corrosion processes. This comprehensive resource explains step-by-step how to prevent and control corrosion in all types of metallic materials and applications—from steel and aluminum structures to pipelines. Filled with 300 illustrations, this skills-building guide shows you how to utilize advanced inspection and monitoring methods for corrosion problems in infrastructure, process and food industries, manufacturing, and military industries. Authoritative and complete, Corrosion Engineering features: Expert guidance on corrosion prevention and control techniques Hands-on methods for inspection and monitoring of corrosion problems New methods for dealing with corrosion A review of current practice, with numerous examples and calculations Inside This Cutting-Edge Guide to Corrosion Prevention and Control - Introduction: Scope and Language of Corrosion - Electrochemistry of Corrosion - Environments: Atmospheric Corrosion - Corrosion by Water and Steam - Corrosion in Soils - Reinforced Concrete - High-Temperature Corrosion - Materials and How They Corrode: Engineering Materials - Forms of Corrosion - Methods of Control: Protective Coatings - Cathodic Protection - Corrosion Inhibitors - Failure Analysis and Design Considerations - Testing and Monitoring: Corrosion Testing and

Monitoring