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Corrosion is an expensive and potentially dangerous problem in many industries. The potential application of different nanostructured materials in corrosion protection, prevention and control is a subject of increasing interest. Corrosion protection and control using nanomaterials explores the potential use of nanotechnology in corrosion control. The book is divided into two parts. Part one looks at the fundamentals of corrosion behaviour and the manufacture of nanocrystalline materials. Chapters discuss the impact of nanotechnology in reducing corrosion cost, and investigate the influence of various factors including thermodynamics, kinetics and grain size on the corrosion behaviour of nanocrystalline materials. There are also chapters on electrodeposition and the corrosion behaviour of electrodeposited nanocrystalline materials. Part two provides a series of case studies of applications of nanomaterials in corrosion control. Chapters review oxidation protection using nanocrystalline structures at various temperatures, sol- gel and self-healing nanocoatings and the use of nanoreservoirs and polymer nanocomposites in corrosion control. With its distinguished editors and international team of expert contributors, Corrosion protection and control using nanomaterials is an invaluable reference tool for researchers and engineers working with nanomaterials in a variety of industries including, aerospace, automotive and chemical engineering as well as academics studying the unique protection and control offered by nanomaterials against corrosion. Explores the potential use of nanotechnology and nanomaterials for corrosion prevention, protection and control Discusses the impact of nanotechnology in reducing corrosion cost and investigates various factors on the corrosion behaviour of nanocrystalline materials Provides a series of case studies and applications of nanomaterials for corrosion control

Corrosion is an expensive and potentially dangerous problem in many industries. The potential application of different nanostructured materials in corrosion protection, prevention and control is a subject of increasing interest. Corrosion protection and control using nanomaterials explores the potential use of nanotechnology in corrosion control. The book is divided into two parts. Part one looks at the fundamentals of corrosion behaviour and the manufacture of nanocrystalline materials. Chapters discuss the impact of nanotechnology in reducing corrosion cost, and investigate the influence of various factors including thermodynamics, kinetics and grain size on the corrosion behaviour of nanocrystalline materials. There are also chapters on electrodeposition and the corrosion behaviour of electrodeposited nanocrystalline materials. Part two provides a series of case studies of applications of nanomaterials in corrosion control. Chapters review oxidation protection using nanocrystalline structures at various temperatures, sol- gel and self-healing nanocoatings and the use of nanoreservoirs and polymer nanocomposites in corrosion control. With its distinguished editors and international team of expert contributors, Corrosion protection and control using nanomaterials is an invaluable reference tool for researchers and engineers working with nanomaterials in a variety of industries including, aerospace, automotive and chemical engineering as well as academics studying the unique protection and control offered by

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nanomaterials against corrosion. Explores the potential use of nanotechnology and nanomaterials for corrosion prevention, protection and control Discusses the impact of nanotechnology in reducing corrosion cost and investigates various factors on the corrosion behaviour of nanocrystalline materials Provides a series of case studies and applications of nanomaterials for corrosion control

Intelligent Coatings for Corrosion Control covers the most current and comprehensive information on the emerging field of intelligent coatings. The book begins with a fundamental discussion of corrosion and corrosion protection through coatings, setting the stage for deeper discussion of the various types of smart coatings currently in use and in development, outlining their methods of synthesis and characterization, and their applications in a variety of corrosion settings. Further chapters provide insight into the ongoing research, current trends, and technical challenges in this rapidly progressing field. Reviews fundamentals of corrosion and coatings for corrosion control before delving into a discussion of intelligent coatings—useful for researchers and grad students new to the subject Covers the most current developments in intelligent coatings for corrosion control as presented by top researchers in the field Includes many examples of current and potential applications of smart coatings to a variety of corrosion problems

Corrosion Prevention and Protection: Practical Solutions presents a functional approach to the various forms of corrosion, such as uniform corrosion, pitting corrosion, crevice corrosion, galvanic corrosion, stress corrosion, hydrogen-induced damage, sulphide stress cracking, erosion-corrosion, and corrosion fatigue in various industrial environments. The book is split into two parts. The first, consisting of five chapters: Introduction and Principles (Fundamentals) of Corrosion Corrosion Testing, Detection, Monitoring and Failure Analysis Regulations, Specifications and Safety Materials: Metals, Alloys, Steels and Plastics Corrosion Economics and Corrosion Management The second part of the book consists of two chapters which present: a discussion of corrosion reactions, media, active and active-passive corrosion behaviour and the various forms of corrosion, a collection of case histories and practical solutions which span a wide range of industrial problems in a variety of frequently encountered environments, including statues & monuments, corrosion problems in metallurgical and mineral processing plants, boilers, heat exchangers and cooling towers, aluminum and copper alloys, galvanized steel structures as well as hydrogeological environmental corrosion This text is relevant to researchers and practitioners, engineers and chemists, working in corrosion in industry, government laboratories and academia. It is also suitable as a course text for engineering students as well as libraries related to chemical and chemical engineering institutes and research departments.

Continuing to provide excellent, state-of-the-art information on corrosion and practical solutions for reducing corrosion, the Second Edition contains valuable suggestions on how to select the best construction material for a specific application . . . choose an appropriate initial design to avoid inherent corrosion pitfalls . . . determine what corrosion problems may exist or develop, as well as the possible extent of the problems. . . and establish practices to monitor corrosion of existing equipment. In addition to significantly revising and expanding all chapters to reflect recent progress in the field, such as the development of materials for pollution control and methods of controlling/preventing corrosion, Corrosion and Corrosion Protection Handbook, Second Edition features detailed discussions on such new topics as atmospheric corrosion, designing to prevent corrosion, sheet linings, and corrosion inhibitors.

A variable game changer for those companies operating in hostile, corrosive marine environments, Corrosion Control for Offshore Structures provides critical corrosion control tips and techniques that will prolong structural life while saving millions in cost. In this book, Ramesh Singh explains the ABCs of prolonging structural life of platforms and pipelines while reducing cost and decreasing the risk of failure. Corrosion Control for Offshore Structures places

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major emphasis on the popular use of cathodic protection (CP) combined with high efficiency coating to prevent subsea corrosion. This reference begins with the fundamental science of corrosion and structures and then moves on to cover more advanced topics such as cathodic protection, coating as corrosion prevention using mill applied coatings, field applications, and the advantages and limitations of some common coating systems. In addition, the author provides expert insight on a number of NACE and DNV standards and recommended practices as well as ISO and Standard and Test Methods. Packed with tables, charts and case studies, Corrosion Control for Offshore Structures is a valuable guide to offshore corrosion control both in terms of its theory and application. Prolong the structural life of your offshore platforms and pipelines Understand critical topics such as cathodic protection and coating as corrosion prevention with mill applied coatings Gain expert insight on a number of NACE and DNV standards and recommended practices as well as ISO and Standard Test Methods.

"This book examines new challenges and industrial applications for corrosion prevention and control"--

Corrosion control in the aerospace industry has always been important, but is becoming more so with the ageing of the aircraft fleet. Corrosion control in the aerospace industry provides a comprehensive review of the subject with real-world perspectives and approaches to corrosion control and prevention. Part one discusses the fundamentals of corrosion and the cost of corrosion with chapters on such topics as corrosion and the threat to aircraft structural integrity and the effect of corrosion on aluminium alloys. Part two then reviews corrosion monitoring, evaluation and prediction including non-destructive evaluation of corrosion, integrated health and corrosion monitoring systems, modelling of corrosion and fatigue on aircraft structures and corrosion control in space launch vehicles. Finally, Part three covers corrosion protection and prevention, including chapters which discuss coating removal techniques, novel corrosion schemes, greases and their role in corrosion control and business strategies in fleet maintenance. With its distinguished editor and team of expert contributors, Corrosion control in the aerospace industry is a standard reference for everyone involved in the maintenance and daily operation of aircraft, as well as those concerned with aircraft safety, designers of aircraft, materials scientists and corrosion experts. Discusses the fundamentals of corrosion and the cost of corrosion to the aerospace industry Examines the threat corrosion poses to aircraft structural integrity and the effect of corrosion on the mechanical behaviour of aircraft Reviews methods for corrosion monitoring, evaluation and prediction examining both current practices and future trends

Provides detailed methods to reduce or eliminate damage caused by corrosion Explains the human and environmental costs of corrosion Explains causes of and various types of corrosion Summarizes the costs of corrosion in different industries, including bridges, mining, petroleum refining, chemical, petrochemical, and pharmaceutical, pulp and paper, agricultural, food processing, electronics, home appliances etc Discusses the technical aspects of the various methods available to detect, prevent, and control corrosion

Corrosion Protection at the Nanoscale explores fundamental concepts on how metals can be protected at the nanoscale by using both nanomaterials-based solutions, including nanoalloys, noninhibitors and nanocoatings. It is an important reference resource for both materials scientists and engineers wanting to find ways to create an efficient corrosion prevention strategy. Nanostructure materials have been widely used in many products, such as print electronics, contact, interconnection, implant, nanosensors and display units to lessen the impact of corrosion. Traditional methods for protection of metals include various techniques, such as coatings, inhibitors, electrochemical methods (anodic and cathodic protections), metallurgical design are covered in this book. Nanomaterials-based protective methods can offer many advantages over their traditional counterparts, such as protection for early-stage, higher corrosion

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resistance, better corrosion control. This book also outlines these advantages and discusses the challenges of implementing nanomaterials as corrosion protection agents on a wide scale. Explains the main methods of detection, monitoring, testing, measurement and simulation of corrosion at the nanoscale Explores how metals can be protected at the nanoscale using nanotechnology and nanomaterials Discusses the major challenges of detecting and preventing corrosion at the nanoscale

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