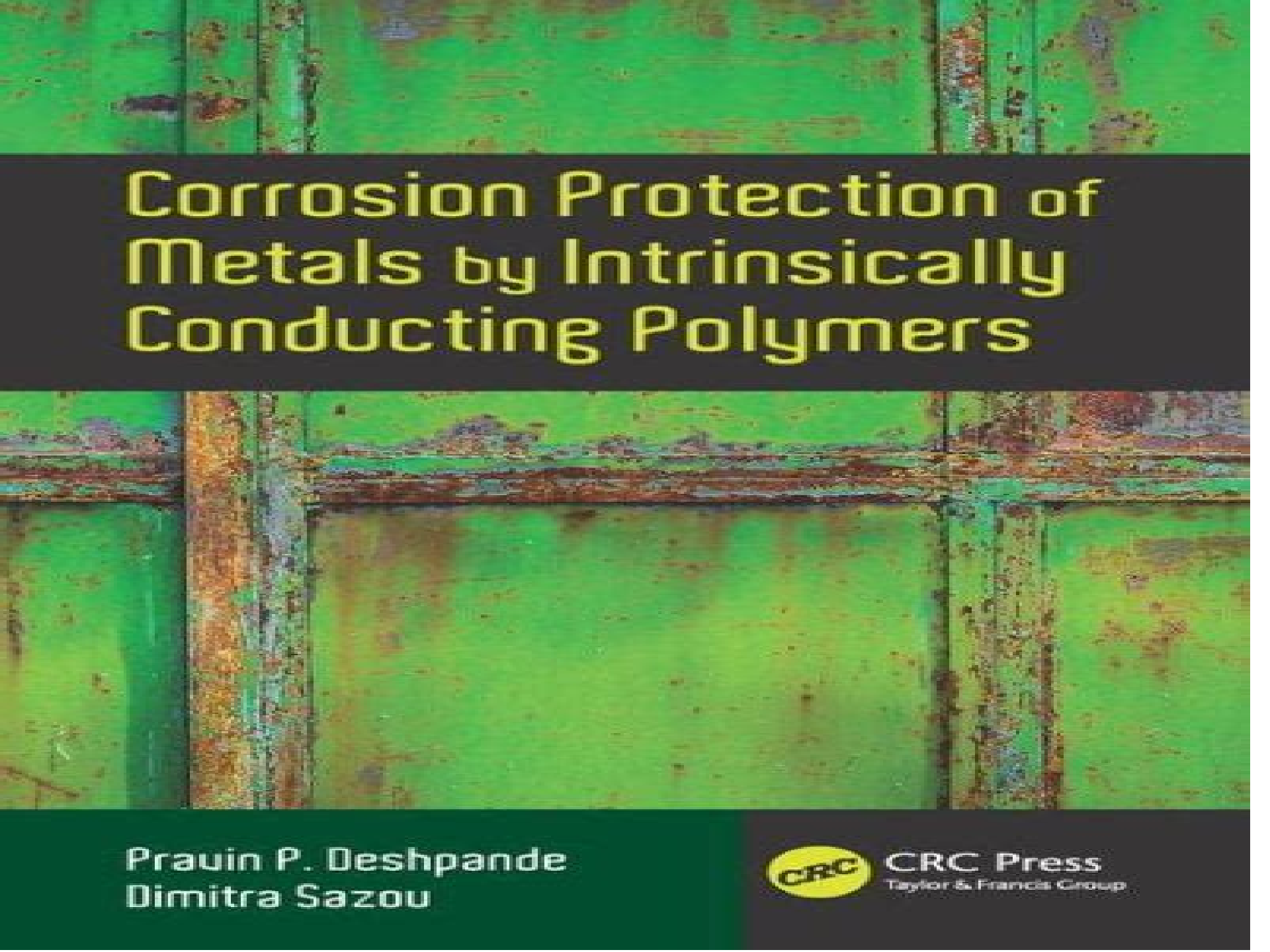




Corrosion Protection of Metals by Intrinsically Conducting Polymers

Prauin P. Deshpande
Dimitra Sazou



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Corrosion Protection of Metals by Intrinsically Conducting Polymers Pravin P. Deshpande, Dimitra Sazou, 2016-01-13 The use of conducting polymers for the anticorrosion protection of metals has attracted great interest during the last 30 years The design and development of conducting polymers based coating systems with commercial viability is expected to be advanced by applying nanotechnology and has received substantial attention recently This book begins with **Corrosion Protection of Metals by Intrinsically Conducting Polymers** Joan Sheppard, 2017-06-27 The use of conducting polymers for the anticorrosion protection of metals has attracted great interest during the last 30 years The design and development of conducting polymers based coating systems with commercial viability is expected to be advanced by applying nanotechnology and has received substantial attention recently This book begins with corrosion fundamentals and ends with an emphasis on developments made in conducting polymer science and technology using nanotechnology Additionally it gives a detailed account of experimental methods of corrosion testing **Anhang zum Buch: Was für ein Zufall!** Bernhard Weßling, 2022-10-06 Dieser Anhang geht zu dem Buch Was für ein Zufall über Unvorhersehbarkeit Komplexität und das Wesen der Zeit Springer Nature 2022 <https://link.springer.com/gp/book/9783658377540> **Self-healing Materials** Peeyush Phogat, Shreya Sharma, Soumya Rai, Jahanvi Thakur, 2025-07-05 This book highlights the transformative potential of self healing materials in addressing global challenges related to sustainability durability and efficiency across industries By bridging the disciplines of physics chemistry and engineering it provides a comprehensive exploration of self healing mechanisms material classifications and cutting edge applications in energy systems biomedical devices and infrastructure The book also delves into the thermodynamics kinetics and biomimetic inspirations driving advancements in this field With an emphasis on scalability environmental impact and future technologies this resource equips researchers engineers and professionals with the knowledge to innovate and implement sustainable solutions It is an essential guide for those aiming to contribute to a circular economy and design materials for a more resilient and eco friendly future **Chemical Abstracts**, 2002 **Materials Performance**, 2004 *Corrosion Protection of Steels by Coatings Containing Electrically Conductive Polymers* Wei-Kang Lu, 1996 The anti corrosion performance of conducting polymers coated on the mild steel and stainless steel samples which exposed to artificial brine and dilute hydrochloric acid was investigated This work attempts to rationalize the observed corrosion processes in order to elucidate protection mechanisms from the view of a corrosion engineer A systematic correlation between the inhibition performance of electrically conducting polymers and its electronic molecular and electrochemical properties was also established Experiments were conducted to evaluate the electrochemical kinetic behavior of the oxidation of metal surfaces for the purpose of understanding the interfacial stability oxidation response and porous film diffusion phenomena of oxidation films on metal surface Several reaction models and revised corrosion principles are presented to discuss the protective properties of intrinsically conducting polymers from

electrochemical macroscopic theories and microscopic molecular details

Corrosion and Protection of Marine

Engineering Materials Yanhua Lei, 2023 This book provides a basic introduction to the application of conductive polymers in corrosion protection especially for marine environment corrosion protection research Conventional anticorrosive coatings which are based on heavy metals such as chromium zinc and copper are toxic to the environment There has been a need to find suitable replacement coatings that are environmentally friendly as well as effective in inhibiting the corrosion of steel Conductive polymers have garnered much attention in recent years due to their environmentally benign nature and high effectiveness in protecting against corrosion This book introduces the history of these conductive polymers The applications of conducting polymers polymer composites and nanocomposites for corrosion protection of different industrial metal substrates are explored based on reported experimental data and their mechanism of inhibition is explained This book also includes overviews of some recent works on marine antifouling marine heavy protective coatings and waterborne paints by conducting polymer and inorganic composites Conducting polymers and their family of stimuli actuated polymers exhibit excellent application prospects in the fields of anticorrosion antibacterial antibiofouling and waterborne based coatings This book will be of great interest to students scholars and professionals alike in the field of corrosion engineering and material science

Corrosion and Protection of Marine Engineering Materials Yanhua Lei, 2023 This book provides a basic introduction to the application of conductive polymer in corrosion protection especially for marine environment corrosion protection research Conventional anticorrosive coatings which are based on heavy metals such as chromium zinc and copper are toxic to the environment There has been a need to find suitable replacement coatings that are environmentally friendly as well as effective in inhibiting corrosion of steel Conductive polymers have garnered much attention recent years due to their environmentally benign nature and high effectiveness in protecting against corrosion This book introduces the history of these conductive polymers The applications of conducting polymers polymer composites and nanocomposites for corrosion protection of different industrial metal substrates are explored based on reported experimental data and their mechanism of inhibition explained This book also includes overviews of some recent works on marine antifouling marine heavy protective coatings waterborne paints by conducting polymer and inorganic composites Conducting polymers and its family of stimuli actuated polymers exhibit excellent application prospects in the field of anticorrosion antibacterial anti biofouling and waterborne based coatings This book will be of great interest to students scholars and professionals alike in the field of Corrosion Engineering and Material Science

Intrinsically Electrically Conducting Polymers as Corrosion Inhibiting Coatings, 1998 The history of conducting polymer research is reviewed and recent results in the area of conducting polymers as corrosion protective coatings are presented and discussed

Aspects on Fundamentals and Applications of Conducting Polymers Artur Motheo, 2012-01-20 Since the establishment of the conductive properties of intrinsic conductive polymers a huge variety of basic and applied research has been carried out involving different polymers

copolymers blends mixtures and composites Thus fundamental understanding of physical and chemical properties of these materials has been sought while the applied aspects have advanced very rapidly crossing the boundaries between disciplines Today the applications of conducting polymers in various fields such as neuroscience nanotechnology and green chemistry are easily found This development is dynamic and it needs to be updated and hence the motivation for the set of results presented in this book which provides information about the development of fundamentals and about some applications of conductive polymers

Books in Print, 1987 Evaluation of (the Intrinsic Conducting Polymer) Polyaniline as a Corrosion Inhibitor on (aircraft Grade) Aluminum Alloys Matthew Shannon Pittman, 2000 Interest is growing in potential applications of intrinsically conducting polymers ICPs Polyaniline is one of the most interesting due to its unique properties and high thermal stability One of the applications identified for polyaniline is its use as a corrosion inhibitor on metals This study evaluates the use of Panda commercial polyaniline obtained from Monsanto as well as Nitto commercial polyaniline obtained from Japanese based company Nitto as a corrosion inhibitor on aircraft grade aluminum Testing was performed in neutral salt spray following ASTM American standard testing methods B117 Good corrosion protection was observed with formulations involving sebacic acid and a University of Missouri Rolla E coat which combined to give an ASTM rating of 9 for corrosion resistance Abstract page iii *Corrosion Protection Using Conducting Polymers* Jan Magnus Gustavsson, 2006

Conductive Polymers for Corrosion Protection Adam Michalik, 2010 *Conducting Polymers/polyimide-clay Nanocomposite Coatings for Corrosion Protection of AA-2024 Alloy*, 2004 Corrosion of metals is a major problem in the aerospace and automobile industry The current methods of corrosion protection such as chromate conversion coatings are under increased scrutiny from the Environmental Protection Agency EPA due to their carcinogenic nature Intrinsically conducting polymers ICPs like polyaniline and polypyrrole have been considered as a potential replacement for chromate conversion coatings and have been under investigation since past decade The goal of this study is to replace the chromate conversion coating by an environmentally friendly organic coating Poly N ethyl aniline coating was electrodeposited as the primer layer and polyimide clay nanocomposite was solution cast as the barrier layer on AA 2024 alloy This study will provide a better understanding of the corrosion protection mechanism of the conducting polymer coating Various characterization techniques such as infrared spectroscopy cyclic voltammetry and scanning electron microscopy were used to study the formation chemical structure and morphology of the coatings Electrodeposition parameters like monomer concentration applied current density and the reaction time were varied in order to optimize the properties of the conducting polymer coating The corrosion performance of the primer coating was evaluated by DC polarization studies It was found that poly N ethyl aniline reduces from emeraldine to leucoemeraldine form reducing the rate of cathodic reaction which reduces the rate of corrosion of AA 2024 alloy Polyimide clay nanocomposite coating was solution cast on the conducting polymer primer layer for enhancing the barrier and corrosion properties of the coating system The concentration of polyimide 10 25 vol % and clay

0.1 and 1 wt % were varied in the coating formulation to optimize the barrier properties of topcoat. X-ray diffraction showed that the intergallery clay distance decreased from 17.2 Å to 11.79 Å after imidization of polyimide clay nanocomposite coating and infrared spectroscopy suggested that there was hydrogen bonding interaction between clay and polyimide chains. DC polarization study, electrochemical impedance spectroscopy and scanning vibrating electrode technique were used to evaluate the corrosion property and model the coating degradation in corrosive medium. It was found that the corrosion property was dependent on the thickness of the barrier coat and concentration of clay in the polyimide coating. The results obtained from the above mentioned test suggest that poly-N-ethyl aniline polyimide clay nanocomposite coatings system is a potential candidate to replace the traditionally used and environmentally unfriendly chromate conversion coating.

Electroactive Polymers for Corrosion Control Peter Zarras, 2003. *Electroactive Polymers for Corrosion Control* is designed to help chemists and engineers prevent corrosion of metals. This book discusses electroactive polymers, electrically conductive polymers and mechanisms of corrosion protection/passivation of metals. Professor Alan MacDiarmid, 2000 Nobel Laureate, presents a brief review of the history of electroactive materials with a general understanding of the synthesis of electroactive materials and corrosion in aqueous environments. Several authors explain the phenomena of corrosion and propose mechanisms by which electroactive polymers inhibit corrosion. Several studies include current state of the art synthesis of electroactive polymers and data supporting the prevention of corrosion in various media are discussed. In addition, new techniques for measuring the onset of corrosion are presented. Chapters in this volume represent a broad range of new electroactive materials used in corrosion prevention and techniques used to measure corrosion. Both materials scientists and engineers will find this book useful for understanding and preventing corrosion. Alternatives to traditional barrier coatings used to prevent or retard corrosion are also discussed. Although previously published books have focused on organic and inorganic barrier coatings to prevent corrosion, this book focuses exclusively on electroactive polymers and their performance in retarding corrosion. Electroactive polymers represent a new environmentally friendly approach to corrosion prevention.

Conducting Polymers/polyimide-clay Nanocomposite Coatings for Corrosion Protection of AA-2024 Alloy, 2004. Corrosion of metals is a major problem in the aerospace and automobile industry. The current methods of corrosion protection such as chromate conversion coatings are under increased scrutiny from the Environmental Protection Agency (EPA) due to their carcinogenic nature. Intrinsically conducting polymers (ICPs) like polyaniline and polypyrrole have been considered as a potential replacement for chromate conversion coatings and have been under investigation since past decade. The goal of this study is to replace the chromate conversion coating by an environmentally friendly organic coating. Poly-N-ethyl aniline coating was electrodeposited as the primer layer and polyimide clay nanocomposite was solution cast as the barrier layer on AA 2024 alloy. This study will provide a better understanding of the corrosion protection mechanism of the conducting polymer coating. Various characterization techniques such as infrared spectroscopy, cyclic voltammetry and

scanning electron microscopy were used to study the formation chemical structure and morphology of the coatings. Electrodeposition parameters like monomer concentration, applied current density and the reaction time were varied in order to optimize the properties of the conducting polymer coating. The corrosion performance of the primer coating was evaluated by DC polarization studies. It was found that poly N ethyl aniline reduces from emeraldine to leucoemeraldine form, reducing the rate of cathodic reaction which reduces the rate of corrosion of AA 2024 alloy. Polyimide/clay nanocomposite coating was solution cast on the conducting polymer primer layer for enhancing the barrier and corrosion properties of the coating system. The concentration of polyimide 10, 25 vol % and clay 0.1 and 1 wt % were varied in the coating formulation to optimize the barrier properties of topcoat. X-ray diffraction showed that the intergallery clay distance decreased from 17.2 Å to 11.79 Å after imidization of polyimide/clay nanocomposite coating and infrared spectroscopy suggested that there was hydrogen bonding interaction between clay and polyimide chains. DC polarization study, electrochemical impedance spectroscopy and scanning vibrating electrode technique were used to evaluate the corrosion property and model the coating degradation in corrosive medium. It was found that the corrosion property was dependent on the thickness of the barrier coat and concentration of clay in the polyimide coating. The results obtained from the above mentioned test suggest that poly N ethyl aniline/polyimide/clay nanocomposite coatings system is a potential candidate to replace the traditionally used and environmentally unfriendly chromate conversion coating.

Conducting Polymers as Corrosion Resistant Coatings, 1994

Although the majority of top coatings used for corrosion protection are electrically insulating, previous workers have proposed using an electrically active barrier for corrosion control. The most effective corrosion resistant undercoatings in use today are based on chromium compounds. Coatings based on other materials will need to replace these coatings by the turn of the century because of environmental and health concerns. For this reason, the authors have begun an investigation of the use of conducting polymers as corrosion resistant coatings as an alternative to metal based coatings. Conducting polymers have long been considered to be unsuitable for commercial processing, hindering their use for practical applications. Research in the field of electrically conducting polymers has recently produced a number of polymers such as polyaniline and its derivatives which are readily soluble in common organic solvents. The authors' coating system consisting of a conducting polyaniline primer layer topcoated with epoxy or polyurethane has been evaluated for corrosion resistance on mild steel substrates. In this paper, the authors report the results of laboratory testing under acidic and saline conditions and the results of testing in the severe launch environment at the Beach Testing Facility at Kennedy Space Center. The launch environment consists of exposure to corrosive HCl exhaust fumes and the salt spray from the Atlantic Ocean.

Evaluation of Corrosion Protective Properties of the Electroactive Conducting Polymers Polyaniline and Polypyrrole Using Electrochemical Techniques Brent Ricky Reems, 2000

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