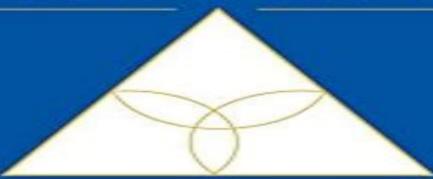
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Second Edition

CONDUCTIVE ELECTROACTIVE POLYMERS

Intelligent Materials Systems



Gordon G. Wallace Geoffrey M. Spinks Leon A.P. Kane-Maguire Peter R. Teasdale



Kwang Jin Kim, Hyouk Ryeol Choi, Xiaobo Tan, David Pugal

Conductive Electroactive Polymers Gordon G. Wallace, Peter R. Teasdale, Geoffrey M. Spinks, Leon A. P. Kane-Maguire, 2002-12-13 From the authors preface As we enter the era of intelligent materials and embark upon a new approach to material design synthesis and system integration certain groups of materials will emerge as champions Standing high among these champions are conductive electroactive polymers CEPs which appear destined to play a central role in the development of intelligent materials Although recent advances have enabled the design and assembly of polymers from the molecular level creating sophisticated structures requires a solid understanding of the structure property relationships Building on the standard setting first edition Conductive Electroactive Polymers Intelligent Materials Systems Second Edition provides a thorough up to date introduction to conductive electroactive polymers The authors discuss the parameters that affect the formation of important CEPs including polypyrroles polyanilines and polythiophenes They show how to use these parameters to manipulate the properties of the polymers and they clarify the chemical and energy parameters that determine the structure and its properties New in this edition are more details on polythiphene and polyaniline systems an update on progress in polypyrroles and reports on recent advances in CEP processing techniques and device fabrication As the use of intelligent materials grows it becomes increasingly important for scientists and engineers in fields ranging from materials science to electronics and biomedicine to understand the properties and potential of CEPs This book is an outstanding introduction to conducting polymers and a valuable reference that brings you quickly up to date on recent developments

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in material processing actuator design control oriented modeling and device and robotic applications. While the main focus is on the new developments in these subjects an effort has been made throughout the book to provide the reader with general basic information about the materials before going into more advanced topics. As a result, the book is very much self contained and expected to be accessible for a reader who does not have background in EAPs. Based on the good fundamental knowledge and the versatility of the materials several promising biomimetic and robotic applications such robotic fish propelled by an IPMC tail an IPMC energy harvester an IPMC based valveless pump a conjugated polymer petal driven micropump and a synthetic elastomer actuator enabled robotic finger are demonstrated. *Mechatronic Systems* Clarence W. de Silva,2007-10-17 Mechatronics has emerged as its own discipline over the past decade yet no reference has lived up to the demands of being a working guide for designing and implementing the new generation of mechatronic systems Uniting an international team of leading experts Mechatronic Systems Devices Design Control Operation and Monitoring rises to the ch. **Polymer Nanocomposites for Advanced Engineering and Military Applications** Ramdani, Noureddine,2019-04-01 The field of polymer nanocomposites has become essential for engineering and military industries over the last few decades as it applies to computing sensors biomedical microelectronics hard coating and many other

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