



Conductive Electroactive Polymers: Intelligent Materials Systems, Second Edition

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

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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 polythiophene 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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