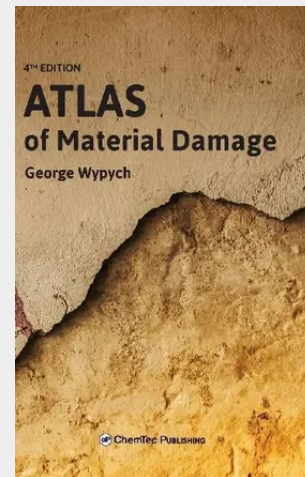


Polymers in Organic Electronics

Polymer Selection for Electronic, Mechatronic, and Optoelectronic Systems

Polymers in Organic Electronics: Polymer Selection for Electronic, Mechatronic, and Optoelectronic Systems, Second Edition provides readers with detailed coverage of electronic polymers, focusing on their properties, optimization strategies, and applications in electronic and optoelectronic devices. It features vital data, guidelines, and techniques for optimally designing organic electronic systems using novel polymers and classifies polymer families, types, complexes, composites, nanocomposites, compounds, and small molecules while also providing an introduction to the fundamental principles of polymers and electronics. Information on concepts and optimized types of electronics and a classification system of electronic polymers are provided, including piezoelectric and pyroelectric, optoelectronic, mechatronic, organic electronic complexes, and more. The book is designed to help readers select the optimized material for structuring their organic electronic system. Chapters discuss the most common properties of electronic polymers, methods of optimization, and polymeric-structured printed circuit boards. Emphasis is placed on the practical framework through which various disciplines (electronics, mechanics, mechatronics, informatics, materials science, optoelectronics) are combined to enable the development of high-performance, low-cost, and lightweight organic electronic components and systems, with reduced development time and faster communication. The polymeric structures of optoelectronics and photonics are covered and the book concludes with a chapter emphasizing the importance of polymeric structures for packaging of electronic devices.

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405,50 €

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vorbestellbar, Erscheinungstermin ca. März 2027

Artikelnummer: 9781774670941

Medium: Buch

ISBN: 978-1-77467-094-1

Verlag: Elsevier Science

Erscheinungstermin: 01.03.2027

Sprache(n): Englisch

Auflage: 2. Auflage 2027

Produktform: Gebunden

Gewicht: 880 g

Seiten: 660

Format (B x H): 156 x 234 mm

