

### Design and Applications of Nanostructured Polymer Blends and Nanocomposite Systems (Micro and Nano Technologies)

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Design and Applications of Nanostructured Polymer Blend and Nanocomposite Systems offers readers an intelligent, thorough introduction to the design and applications of this new generation of designer polymers with customized properties. The book assembles and covers, in a unified way, the state-of-the-art developments of this less explored type of material.

With a focus on nanostructured polymer blends, the book discusses the science of nanostructure formation and the potential performance benefits of nanostructured polymer blends and composites for applications across many sectors: electronics, coatings, adhesives, energy (photovoltaics), aerospace, automotive, and medical devices (biocompatible polymers). The book also describes the design, morphology, and structure of nanostructured polymer composites and blends to achieve specific properties.

- Covers all important information for designing and selecting the right nanostructured polymer system
- Provides specialized knowledge on self-repairing, nanofibre and nanostructured multiphase materials, as well as evaluation and testing of nanostructured polymer systems
- Serves as a reference guide for development of new products in industries ranging from electronics, coatings, and energy, to transport and medical applications
- Describes the design, morphology, and structure of nanostructured polymer composites and blends to achieve specific properties



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