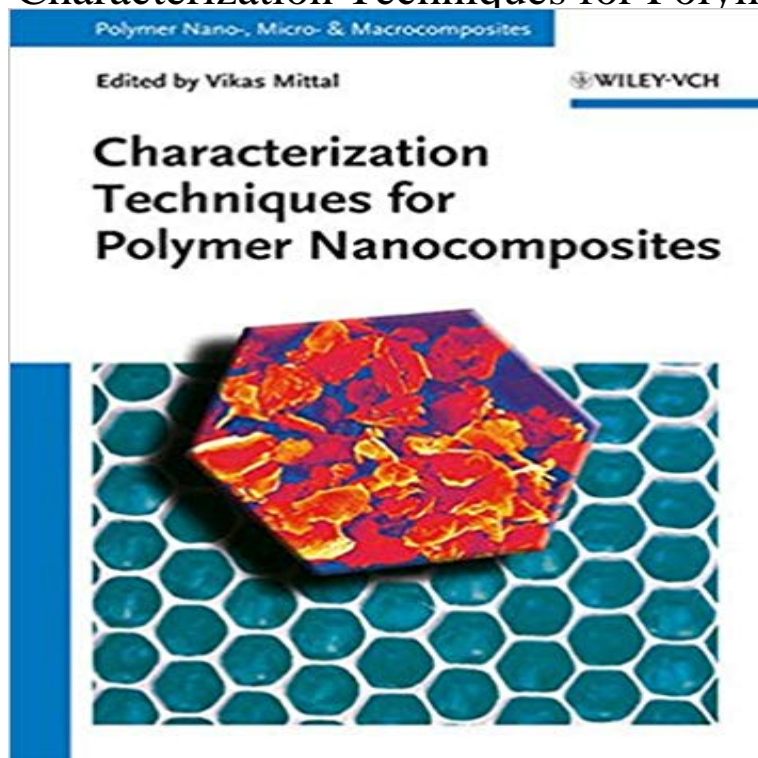


# Characterization Techniques for Polymer Nanocomposites



With its focus on the characterization of nanocomposites using such techniques as x-ray diffraction and spectrometry, light and electron microscopy, thermogravimetric analysis, as well as nuclear magnetic resonance and mass spectroscopy, this book helps to correctly interpret the recorded data. Each chapter introduces a particular characterization method, along with its foundations, and makes the user aware of its benefits, but also of its drawbacks. As a result, the reader will be able to reliably predict the microstructure of the synthesized polymer nanocomposite and its thermal and mechanical properties, and so assess its suitability for a particular application. Belongs on the shelf of every product engineer.

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Characterization of Fillers and Polymer Nanocomposites 13. Vikas Mittal. 2.1. **Spectroscopy of Polymer**

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