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Based on Wiley's renowned *Encyclopedia of Polymer Science and Technology*, this book provides coverage of key methods of characterization of the physical and chemical properties of polymers, including atomic force microscopy, chromatographic methods, laser light scattering, nuclear magnetic resonance, and thermal analysis, among others. Written by prominent scholars from around the world, this reference presents over twenty-five self-contained articles on the most used analytical techniques currently practiced in polymer science.

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Editorial Review

Review

"The entire book is an outstanding resource for theoretical understanding and practical usefulness of commonly used testing methods and techniques for the characterization of polymers. It is loaded with many useful graphs, tables, and theory for each test technique. Anyone interested in characterizing polymers will find this book to be an excellent resource and will frequently refer to it for guidance on selecting and properly performing analysis methods. It is well worth the investment." (*IEEE Electrical Insulation Magazine*, March/April 2009)

"[A] distinguished collection of articles ... The editors wanted to provide a reliable resource for scientists and a book that serves as a valuable addition to libraries in industry and academia. I think that was well accomplished." (*Macromolecular Chemistry and Physics*, June 2008)

"The editors wanted to provide a reliable resource for scientists ... I think that was well accomplished." (*Macromol. Chem. Phys.*, 2008, 209, 1515)

From the Back Cover

A valuable resource on polymer characterization and analysis for scientists and practitioners in various disciplines

Based on Wiley's renowned Encyclopedia of Polymer Science and Technology, Characterization and Analysis of Polymers provides coverage of key methods of characterization of the physical and chemical properties of polymers. Methods discussed include atomic force microscopy, chromatographic methods, laser light scattering, nuclear magnetic resonance, and thermal analysis, among others.

Written by prominent scholars from around the world, this reference presents over twenty-five self-contained articles on the most used analytical techniques currently practiced in polymer science. These techniques are grouped into three main categories based on fundamental properties:

- Composition, molar mass, and molar mass distribution
- Structure and morphology
- Molecular organization and dynamics

Characterization and Analysis of Polymers is an ideal resource for chemists, chemical engineers, materials scientists, process engineers, consultants, and patent attorneys, and serves as a valuable addition to libraries in industry, academia, and government.

Users Review

From reader reviews:

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