Modern Methods of Polymer Characterization. Chemical Analysis: A Series of Monographs on Analytical Chemistry and Its Applications

Description:
Presents the methods used for characterization of polymers. In addition to theory and basic principles, the instrumentation and apparatus necessary for methods used to study the kinetic and thermodynamic interactions of a polymer with its environment are covered in detail. Some of the methods examined include polymer separations and characterization by size exclusion and high performance chromatography, inverse gas chromatography, osmometry, viscometry, ultracentrifugation, light scattering and spectroscopy.

Contents:
Characterization of Complex Polymers by Size Exclusion Chromatography and High-Performance Liquid Chromatography (S. Balke).
Data Reduction in Size Exclusion Chromatography of Polymers (G. Meira).
Measurement of Long-Chain Branch Frequency in Synthetic Polymers (A. Rudin).
Polymer Analysis by Field-Flow Fractionation (K. Caldwell).
Polymer Characterization Using Inverse Gas Chromatography (P. Munk).
Measurement of Molecular Weights of Polymers by Osmometry (J. Mays & N. Hadjichristidis).
Polymer Characterization Using Dilute Solution Viscometry (J. Mays & N. Hadjichristidis).
Polymer Characterization Using the Ultracentrifuge (P. Munk).
Low-Angle Laser Light Scattering (LALLS) of Macromolecules (J. Lindner & S. Huang).
Photon Correlation Spectroscopy (R. Flippen).
NMR Characterization of Polymers (H. Cheng).
Polymer Characterization Using Mass Spectrometry (P. Vouros & J. Wronka).
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