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Nota di contenuto	POLYMER ANALYSIS; Contents; Series Preface; Preface; Acronyms, Abbreviations and Symbols; About the Author; 1 Introduction; 1.1 Introduction; 1.2 History; 1.3 Thermoplastics; 1.4 Thermosets; 1.5 Elastomers; 1.6 High-Performance Polymers; 1.7 Copolymers; 1.8 Blends; 1.9 Composites; 1.10 Additives; 1.11 Speciality Polymers; 1.11.1 Liquid Crystalline Polymers; 1.11.2 Conducting Polymers; 1.11.3 Thermoplastic Elastomers; 1.11.4 Biomedical Polymers; 1.11.5 Biodegradable Polymers; References; 2 Identification; 2.1 Introduction; 2.2 Preliminary Identification Methods; 2.2.1 Solubility; 2.2.2 Density 2.2.3 Behaviour on Heating2.3 Infrared Spectroscopy; 2.4 Raman Spectroscopy; 2.5 Nuclear Magnetic Resonance Spectroscopy; 2.6 Ultraviolet -Visible Spectroscopy; 2.7 Differential Scanning Calorimetry; 2.8 Mass Spectrometry; 2.9 Chromatography; 2.10 Emission Spectroscopy; References; 3 Polymerization; 3.1 Introduction; 3.2 Chain Polymerization; 3.2.1 Free-Radical Chain Polymerization; 3.2.2 Ionic Chain Polymerization; 3.2.3 Coordination Polymerization; 3.2.4 Ring-Opening Polymerization; 3.2.5 Practical Methods of Chain Polymerization; 3.3 Step Polymerization; 3.3.1 Statistics; 3.3.2 Kinetics 3.4 Copolymerization3.5 Cross-Linking; 3.6 Dilatometry; 3.7 Infrared

Spectroscopy; 3.8 Raman Spectroscopy; 3.9 Nuclear Magnetic Resonance Spectroscopy; 3.10 Differential Scanning Calorimetry; 3.11 Electron Spin Resonance Spectroscopy; 3.12 Refractometry; References; 4 Molecular Weight; 4.1 Introduction; 4.2 Molecular Weight Calculations; 4.3 Viscometry; 4.4 Chromatography; 4.5 Ultracentrifugation; 4.6 Osmometry; 4.7 Light Scattering; 4.8 End-Group Analysis; 4.9 Ibrbidimetric Titration; References; 5 Structure; 5.1 Introduction; 5.2 Isomerism; 5.3 Chain Dimensions; 5.4 Crystallinity 5.5 Orientation5.6 Blends; 5.7 Thermal Behaviour; 5.8 Dilatometry; 5.9 Infrared Spectroscopy; 5.10 Raman Spectroscopy; 5.11 Nuclear Magnetic Resonance Spectroscopy; 5.12 Thermal Analysis; 5.12.1 Differential Scanning Calorimetry; 5.12.2 Thermal Mechanical Analysis; 5.12.3 Dynamic Mechanical Analysis; 5.13 Optical Microscopy; 5.14 Transmission Electron Microscopy; 5.15 X-Ray Diffraction; 5.16 Neutron Scattering; References; 6 Surface Properties; 6.1 Introduction; 6.2 Infrared Spectroscopy; 6.2.1 Attenuated Total Reflectance Spectroscopy; 6.2.2 Speculur Reflectance Spectroscopy 6.2.3 Difuse Reflectance Spectroscopy6.2.4 Photoacoustic Spectroscopy; 6.3 Raman Spectroscopy; 6.4 Photoelectron Spectroscopy; 6.5 Secondary-Ion Mass Spectrometry; 6.6 Inverse Gas Chromatography; 6.7 Scanning Electron Microscopy; 6.8 Surface Tension; 6.9 Atomic Force Microscopy; 6.10 Tribology; References; 7 Degradation; 7.1 Introduction; 7.2 Oxidative Degradation; 7.3 Thermal Degradation; 7.4 Radiation Degradation; 7.5 Combustion; 7.6 Dissolution; 7.7 Infrared Spectroscopy; 7.8 Raman Spectroscopy; 7.9 Electron Spin Resonance Spectroscopy; 7.10 Thermal Analysis 7.10.1 Thermogravimetric Analysis

Sommario/riassunto

This book introduces the techniques used for the analysis of polymers. It covers the main aspects of polymer science and technology; identification, polymerization, molecular weight, structure, surface properties, degradation and mechanical properties.* Clear explanations of each analytical technique* Describes the application of techniques to the study of polymers* Encourages learning through numerous self-assessment questions and answers* Structured for flexible learning

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