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Altri autori (Persone)	MathersRobert T MeierMichael A. R
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	 3.7 Polyurethanes; 3.8 Furyl Oxirane; 3.9 Application of the Diels-Alder Reaction to Furan Polymers; 3.9.1 Linear Polymerizations; 3.9.2 Non-Linear Polymerizations; 3.9.3 Reversible Polymer Cross-Linking 3.9.4 Miscellaneous Systems3.10 Conclusions; References; 4 Selective Conversion of Glycerol into Functional Monomers via Catalytic Processes; 4.1 Introduction; 4.2 Conversion of Glycerol into Glycerol Carbonate; 4.3 Conversion of Glycerol into Acrolein/Acrylic Acid; 4.4 Conversion of Glycerol into Glycidol; 4.5 Oxidation of Glycerol to Functional Carboxylic Acid; 4.5.1 Catalytic Oxidation of Glycerol; 4.5.2.1 Cationic Polymerization; 4.5.2.2 Anionic Polymerization; 4.6 Conversion of Glycerol into Acrylonitrile 4.7 Selective Conversion of Glycerol into Propylene Glycol4.7.1 Conversion of Glycerol into Propylene Glycol; 4.7.1.1 Reaction in the Liquid Phase; 4.7.1.2 Reaction in the Gas Phase; 4.7.2 Conversion of Glycerol with Functional Monomers; 4.9 Conclusion; References; Part III Sustainable Reaction Conditions; 5 Monoterpenes as Polymerization Solvents and Monomers in Polymer Chemistry; 5.1 Introduction; 5.2 Monoterpenes as Monomers; 5.2.5 Cationic Polymerization of -Pinene5.2.4 Cationic Polymerization of Dipentene; 5.2.8 Commercial Production and Markets of Terpenic Resins; 5.2.9 Environmental Aspects of Terpenic Resin Production; 5.3.1 Possibilities for Replacing Petroleum Solvents; 5.3.2 Ring-Opening Polymerizations in Monoterpenes; 5.3.3 Metallocene Polymerizations in Monoterpenes; 6.3.3 Metallocene Polymerizations in Monoterpenes; 5.3.3 Metallocene Polymerizations in Monoterpenes; 5.3.3 Metallocene Polymerizations in Monoterpenes; 5.3.3 Metallocene Polymerizations in Monoterpenes; 5.4 Conclusion; Acknowledgments; References
Sommario/riassunto	This first book to cover the topic in such great detail summarizes and evaluates the latest developments in green polymerization methods. Leading experts in the field discuss new every aspect from renewable materials to waste reduction, and from biocatalysis to solvent-free methods.Of high interest to polymer, synthetic and material scientists in academia and industry.