DESCRIPTION

This book describes advances in synthesis, processing, and technology of environmentally friendly polymers generated from renewable resources. With contents based on a wide range of functional monomers and contributions from eminent researchers, this volume demonstrates the design, synthesis, properties and applications of plant oil based polymers, presenting an elaborate review of acid mediated polymerization techniques for the generation of green polymers. Chemical engineers are provided with state-of-the-art information that acts to further progress research in this direction.

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Vikas Mittal is an Assistant Professor at the Chemical Engineering Department of The Petroleum Institute, Abu Dhabi. He obtained his PhD in 2006 in Polymer and Materials Engineering from the Swiss Federal Institute of Technology in Zurich, Switzerland. Later, he worked as a Materials Scientist in the Active and Intelligent Coatings section of Sun Chemical in London, UK and as Polymer Engineer at BASF Polymer Research in Ludwigshafen, Germany. His research interests include polymer nanocomposites, novel filler surface modifications, thermal stability enhancements, and polymer latexes with functionalized surfaces.