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and processing of bio-degradable polymers and their emerging applications in various sectors from drug delivery to food packaging. Covering a wide range of topics, including synthesis, modification, processing techniques, and few of their advanced applications in emerging areas, this book provides a comprehensive overview of the field. The authors also delve into cutting-edge research on the synthesis, properties and applications of bio-degradable polymers in various fields, such as agricultural, food preservation, biomedical arena, energy storage and other advanced application areas. This volume is an essential resource for scientists, engineers, and policymakers interested in the future of sustainable materials. Whether you are a researcher looking to expand your knowledge of biodegradable polymer synthesis and processing or a policymaker interested in the potential of biodegradable polymers to reduce our reliance on fossil fuels, this book is an invaluable guide to the field.