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subject of biodegradable polymers and is ideal for those new to the subject or those wanting to supplement their existing knowledge.

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fabricators – and for industry sectors
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adhesive and coating industries,
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dioxide in the atmosphere. The carbon dioxide released when they degrade can be reabsorbed by plants, which makes them close to carbon neutral.

Biopolymers are biodegradable and some are compostable, too. This book presents key topics on biopolymers, including their synthesis,

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environmental sustainability, the essence of this key publication. The handbook consists of chapters written and contributed by international experts from academia who are world leaders in research and technology in sustainability and biopolymer and biodegradable polymer synthesis,

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Overview of the immense potential and ongoing research in bio-based and biodegradable polymer science, engineering and technology to make the world greener.

In today's world, bioplastics are becoming increasingly prominent owing

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mainly to scarcity of oil, increase in the cost of petroleum-based commodities, and growing environmental concerns with the dumping of non-biodegradable plastics in landfills.

This book summarizes the field of bioplastics by illustrating how they form a unique class of research area that

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integrates pure and applied sciences such as chemistry, engineering and material science, to initiate solutions. Compelling science demystifies this complex and often ambiguous branch of study for benefit of all those concerned with bioplastics.

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facilities after their useful life. These
compostable plastics undergo
degradation and leave no visible,

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Environmental concerns and legislative measures taken in different regions of the world make composting an increasingly attractive route for the disposal of redundant polymers. This book covers the entire spectrum of preparation, degradation, and

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explores possible routes of compostable polymers waste disposal through an ecological lens. Finally, the book examines the economic factors at work, including price evolution over the past decade, the current market, and future perspectives. Compostable Polymer Materials is an essential

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Resource for graduate students and scientists working in chemistry, materials science, ecology, and environmental science. Provides a comprehensive study of the composting process Details methods of compostable polymers preparation, including properties, processing and

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waste management in Europe and the United States, as well as the status of MSW disposal and treatment methods in countries such as China and Brazil

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Analyzes evolution of market development, including price of compostable polymers during the last decade

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Handbook of Biodegradable Polymers, the seventh volume in the Drug Delivery and Targeting book series,

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Provides a source manual for synthetic procedures, properties and applications of bioerodible polymers.

The authors describe widely available materials such as polyactides, collagen and gelatin, as well as polymers of emerging importance, such as the genetically-engineered

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and elastin-based polymers which are either proprietary or in early stages of development. Section 1 addresses synthetic absorbable polymers, and Section 2 profiles natural, semi-synthetic and biosynthetic polymers. Section 3 discusses the surface characterization of degradable

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examine the current state of the art, new challenges, and opportunities, discussing all the synthetic routes to the generation of both micro- and nano-morphologies, as well as the synthesis, characterization and application of porous biopolymers. An outstanding resource for anyone

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involved in the field of eco-friendly biomaterials for advanced technologies.

Biopolymers and biodegradable plastics are finding new applications in various sectors, from packaging, to medical, automotive and many more.

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As synthetic plastics are increasingly replaced by their bioplastic equivalents, engineers are facing new challenges including processing, costs, environmental sustainability and - ultimately - developing successful products. Biopolymers: Processing and Products, the second book of a

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trilogy dedicated to biopolymers, gives a detailed insight into all aspects of processing, seamlessly linking the science of biopolymers to the latest trends in the development of new products. Processes covered in the book include blending, compounding, treatment, and shaping, as well as the

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formation of biocomposites.

Biopolymer coatings and adhesives are also investigated. This book is unique in its coverage and contains information retrieved mainly from patents, which form the bulk of the book. The coverage of processing will help engineers and designers to

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improve output and efficiency of every stage of the product development process, and will form an indispensable tool in selecting the right biopolymer and processing technique for any given application, covering medical, automotive, food packaging and more. It will assist also engineers,

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both the polymer basics that are

helpful to bring readers quickly up-to-

speed if they are not familiar with a

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particular area of plastics processing and the recent developments that enable practitioners to discover which options best fit their requirements.

New chapters added specifically cover polyamides, polyimides, and polyesters. Hot topics such as 3-D printing and smart plastics are also

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included, giving plastics engineers the information they need to take these embryonic technologies and deploy them in their own work. With the increasing demands for lightness and fuel economy in the automotive industry (not least due to CAFÉ standards), plastics will soon be used

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even further in vehicles. A new chapter has been added to cover the technology trends in this area, and the book has been substantially updated to reflect advancements in technology, regulations, and the commercialization of plastics in various areas. Recycling of plastics has been thoroughly

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revised to reflect ongoing developments in sustainability of plastics. Extrusion processing is constantly progressing, as have the elastomeric materials, fillers, and additives which are available.

Throughout the book, the focus is on the engineering aspects of producing

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and using plastics. The properties of plastics are explained, along with techniques for testing, measuring, enhancing, and analyzing them.

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