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Biodegradable polyvinyl alcohol /starch / halloysite nanotube bionanocomposite: Preparation and Characterization.

Sommario/riassunto

This book provides cutting-edge, up-to-date research findings on the use of bionanocomposites in biodegradable and environmental applications, while also detailing how to achieve bionanocomposites preparation, characteristics, and significant enhancements in physical, chemical, mechanical, thermal properties and applications. This book on biodegradable and environmental properties of bionanocomposites provides a comprehensive and updated review of major innovations in the field of polymer-based bionanocomposites for biodegradable and environmental applications. It covers properties and applications, including the synthesis of polymer-based bionanocomposites from different sources biomaterials-based composites and tactics on the efficacy and major challenges associated with successful scale-up fabrication on bionanocomposites. It is an essential reference for future research in bionanocomposites as topics such as sustainable, biodegradable, and environmental methods for highly innovative and applied materials are current topics of importance. The book covers a wide range of research on bionanocomposite and their biodegradable and environmental applications. Updates on the most relevant polymer-based bionanocomposite and their prodigious potential in the fields of biodegradable and the environment are presented. Leading researchers from industry, academy, government, and private research institutions across the globe contribute to this book. Scientists, engineers, and students with interest in the most important advancements in the field of bionanocomposites involving high-performance bionanocomposites will benefit from this book which is highly application-oriented. .
