

Introduction to Bioplastics Engineering (Plastics Design Library)

By Syed Ali Ashter

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Introduction to Bioplastics Engineering is a practical, user-friendly reference for plastics engineers working with biopolymers and biodegradable plastics that addresses topics that are required for the successful development of cohesive bioplastic products.

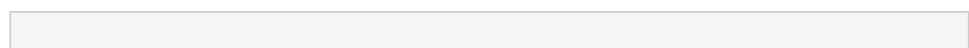
While there has been considerable demand for the use of bioplastics in industry, processing these bioplastics is a big challenge. The book provides plastics engineers and researchers with a fundamental, practical understanding of the differences between bioplastics and biodegradable polymers, along with guidance on the different methods used to process bioplastics.

The book also covers additives and modifiers for biopolymers and their effect on properties. Examples include commercial applications of bioplastics, current bioplastics being developed, and future trends in the industry.

This enables engineers, researchers, technicians, and students to understand the decisive relationship between different processing techniques, morphology, mechanical properties, and the further applications of bio-based polymers.

The book presents a true engineering approach for the industry on the processing of biopolymers and biodegradable plastics – discussing the ease of use of the polymer, mechanical and thermal properties, rate of biodegradation in particular environments, and pros and cons of particular bioplastics.

- Enables engineers, researchers, technicians, and students to understand the decisive relationship between different processing techniques, morphology, mechanical properties, and the further applications of bio-based polymers.
- Covers additives and modifiers for biopolymers and their effect on properties
- Includes examples that illustrate the commercial applications of bioplastics, current bioplastics being developed, and future trends in the industry



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Editorial Review

About the Author

Syed Ali Ashter is a Development Engineer at EMD Millipore Corporation, developing medical devices from concept to commercialization, and in process development. He performed post-doctoral research on next generation formable films for the automotive industry at McMaster University, and received his Ph.D. in 2008 in Plastics Engineering from University of Massachusetts Lowell. He has been on the Board of Directors of the Medical Plastics division of the Society of Plastics Engineers since 2012. He has published two books: 'Thermoforming of Single and Multilayer Laminates' at the end of 2013, and 'Introduction to Bioplastics Engineering' in 2016.

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