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Commercializing Biobased Products

Opportunities, Challenges, Benefits, and Risks

Edited by Seth Snyder

Synopsis

Biobased products offer substantial economic and environmental benefits, but understanding how to commercialize this requires a comprehensive look at the process. By examining the process from several critical perspectives in the supply chain, this book provides chemical engineers with a better understanding of challenges, opportunities, risks, and benefits of commercialization.

Brief Contents

- The Changing Landscape: The History and Evolution of Bio-Based Products
- Bioenergy Crops: Delivering More Than Energy
- Butanol Production by Fermentation: Efficient Bioreactors
- Carbon Dioxide Conversion to Chemicals with Emphasis on using Renewable Energy/Resources to Drive the Conversion
- Separation Technologies for Biobased Product Formation - Opportunities and Challenges
- Lignin Processing: Functional Fibers and Chemical Products
- Update on Research and Development of Microbial Oils
- Bioprocessing of Cost-Competitive Biobased Organic Acids

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