



Food and Industrial Bioproducts and Bioprocessing

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Food and Industrial Bioproducts and Bioprocessing describes the engineering aspects of bioprocessing, including advanced food processing techniques and bioproduct development. The main focus of the book is on food applications, while numerous industrial applications are highlighted as well. The editors and authors, all experts in various bioprocessing fields, cover the latest developments in the industry and provide perspective on new and potential products and processes. Challenges and opportunities facing the bioproduct manufacturing industry are also discussed. Coverage is far-reaching and includes: current and future biomass sources and bioprocesses; oilseed processing and refining; starch and protein processing; non-thermal food processing; fermentation; extraction techniques; enzymatic conversions; nanotechnology; microencapsulation and emulsion techniques; bioproducts from fungi and algae; biopolymers; and biodegradable/edible packaging.

Researchers and product developers in food science, agriculture, engineering, bioprocessing and bioproduct development will find *Food and Industrial Bioproducts and Bioprocessing* an invaluable resource.

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Editorial Review

From the Back Cover

Petroleum-derived products have dominated world manufacturing industries for decades but diminishing petroleum resources, volatile political environments in some of the major petroleum producing countries and environmental concerns have caused a paradigm shift. Today, significant resources are dedicated to the development of bioproducts from renewable sources. Research and development efforts to harness the unique chemical and physical properties of plants and microorganisms to produce ecologically benign products that outperform their non-renewable counterparts have accelerated. Current and potential

markets for bioproducts are broad and include food ingredients, polymers, lubricants, solvents, adhesives, herbicides, cosmetics and pharmaceuticals. Ever-increasing consumer demand for “chemical free”, “healthy” and “natural” foods have forced the food industry in particular to re-evaluate its use of conventional food ingredients and processing techniques and to adapt new and advanced production systems.

Food and Industrial Bioproducts and Bioprocessing provides a comprehensive review of the latest developments in food and industrial bioproducts and bioprocessing techniques. Although it is an important topic, biofuels are not covered in the book. Subjects covered over 14 chapters include starch-based bioproducts; protein processing; oil and oilseed processing; food-grade microemulsions; fermentation; fungal cell factories; microalgae and biopolymers. Additional chapters address recent developments in non-thermal processing and the role of enzymes as biocatalysts.

This volume is designed as a reference source for scientists, students and government and industry personnel who are interested in the recent developments and future opportunities in food and industrial bioproducts, and relevant bioprocessing techniques.

About the Author

Professor Nurhan Turgut Dunford is based at the Department of Biosystems and Agricultural Engineering, Oklahoma State University, Stillwater, USA.

Users Review

From reader reviews:

Jaime Leflore:

The actual book *Food and Industrial Bioproducts and Bioprocessing* will bring one to the new experience of reading the book. The author style to describe the idea is very unique. When you try to find new book you just read, this book very suited to you. The book *Food and Industrial Bioproducts and Bioprocessing* is much recommended to you to learn. You can also get the e-book through the official web site, so you can quickly to read the book.

Loretta Claybrooks:

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