

Biorenewable Resources: Engineering New Products from Agriculture

By Robert C. Brown, Tristan R. Brown



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Biorenewable Resources: Engineering New Products from Agriculture, 2nd Edition will provide comprehensive coverage of engineering systems that convert agricultural crops and residues into bioenergy and biobased products. This edition is thoroughly updated and revised to better serve the needs of the professional and research fields working with biorenewable resource development and production. Biorenewable resources is a rapidly growing field that forms at the interface between agricultural and plant sciences and process engineering. Biorenewable Resources will be an indispensable reference for anyone working in the production of biomass or biorenewable resources.



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Sales Rank: #1441102 in BooksPublished on: 2014-03-17Original language: English

• Number of items: 1

• Dimensions: 10.30" h x .82" w x 7.30" l, .0 pounds

• Binding: Hardcover

• 388 pages

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Editorial Review

From the Back Cover

Biorenewable resources are the dedicated energy crops, agricultural residues, and organic wastes that serve as feedstocks in the production of fuels, chemicals, energy, and materials for the emerging bioeconomy. *Biorenewable Resources: Engineering New Products from Agriculture, 2nd Edition* provides a timely, comprehensive overview of the field that incorporates significant advances made in the field over the last decade.

Biorenewable Resources: Engineering New Products from Agriculture, 2nd Edition is thoroughly revised and expanded to better serve the needs of students, professionals, and researchers working on the production and processing of biorenewable resources. Chapters provide grounding in fundamental concepts of engineering thermodynamics and organic chemistry relevant to the field, as well as provide practical guidance in feedstock production, processing, economics, and policy. The second edition of this foundational text will be an essential volume for anyone working in the biorenewables field.

- Provides comprehensive coverage of the development of renewable resources from biomass and agricultural residues
- Thoroughly revised to reflect the current state of the biorenewable resource research and industry
- Chapters explore topics ranging from production and processing of biorenewable resources to economics, policy, and environmental impacts
- Essential reading for students, researchers, and industry personnel working in the world's emerging bioeconomy

About the Author

Robert C. Brown is Anson Marston Distinguished Professor of Engineering, Gary and Donna Hoover Chair in Mechanical Engineering, and Founding Director of the Bioeconomy Institute at Iowa State University.

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