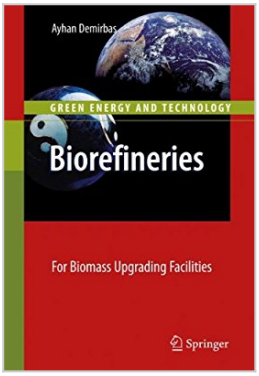

Biorefineries: For Biomass Upgrading Facilities (Green Energy and Technology)

By Ayhan Demirbas

Biorefineries: For Biomass Upgrading Facilities (Green Energy and Technology) By Ayhan Demirbas

Industrial biorefineries have been identified as the most promising routes to the creation of a bio-based economy. Partial biorefineries already exist in some energy crop, forest-based, and lignocellulosic product facilities. *Biorefineries: For Biomass Upgrading Facilities* examines the variety of different technologies which integrated bio-based industries use to produce chemicals; biofuels; food and feed ingredients; biomaterials; and power from biomass raw materials. Conversion technologies are also covered, since biomass can be converted into useful biofuels and biochemicals via biomass upgrading and biorefinery technologies.

Biorefineries: For Biomass Upgrading Facilities will prove a practical resource for chemical engineers, and fuel and environmental engineers. It will also be invaluable in academic fields, providing useful information for both researchers and students.

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Biorefineries: For Biomass Upgrading Facilities (Green Energy and Technology) By Ayhan Demirbas Bibliography

- Sales Rank: #5457102 in Books
- Brand: Brand: Springer
- Published on: 2009-10-14
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x .63" w x 6.14" l, 1.17 pounds
- Binding: Hardcover
- 240 pages

Editorial Review

Review

From the reviews:

“This book attempts to address the needs of energy researchers, chemical engineers, energy resources specialists, agriculturists, crop cultivators, and others interested in bioenergy. … for non-engineering readers and students, this book may be adequate for a comprehensive overview of the field. It may also be useful … for engineering students. … Summing Up: Recommended. Lower- and upper-division undergraduates, two-year technical program students, general readers.” (A. C. Sheth, Choice, Vol. 47 (8), April, 2010)

“Describes the main biorefinery concepts for the production of fuels based on biomass and their technical opportunities. … In the more technical parts he shows the biomass fractionation and valorisation, the different thermochemical and biochemical processes and an overview to economical, political and environmental impacts of biorefineries. Overall this book is a good reference for biofuel production in biorefineries.” (Bio-based News, Issue 8, February/March, 2011)

“The book clearly aims towards both general and advanced level readers. … The main focus of the book is however on various thermo chemical and biochemical processes that take place in the biorefinery. … the author particularly discusses the technological, economical and policy barriers which need to be overcome for full fledged deployment of a biorefinery based economy. … To gain a comprehensive outlook on this concept is thus highly desired and this is deservedly fulfilled by the book.” (Vishal Toro, Green Energy, Vol. 6 (5), September-October, 2010)

From the Back Cover

Climate change, environmental impact and declining natural resources are driving scientific research and novel technical solutions. *Green Energy and Technology* serves as a publishing platform for scientific and technological approaches to "green" - i.e., environmentally friendly and sustainable - technologies. While the main focus lies on energy and power supply, the series also covers green solutions in industrial engineering and engineering design. *Green Energy and Technology* is a monograph series addressing researchers, advanced students and technical consultants, as well as decision makers in industry and politics. The level presentation ranges from instructional to highly technical.

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Conversion technologies are also covered, since biomass can be converted into useful biofuels and biochemicals via biomass upgrading and biorefinery technologies. Upgrading processes discussed in this book include fractionation, liquefaction, pyrolysis, hydrolysis, fermentation, and gasification.

Biorefineries: For Biomass Upgrading Facilities will prove a practical resource for chemical engineers, and fuel and environmental engineers. It will also be invaluable in academic fields, providing useful information for both researchers and students.

About the Author

Ayhan Demirbas is a full professor at Sila Science and Energy, Turkey. He was a professor in Energy Technologies Science at Karadeniz Technical University, Turkey, between 1991 and 2001, and at Selcuk University, Turkey, from 2003 to 2007. His research is mainly concerned with renewable and sustainable energy.

Users Review

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