



Biomass for Renewable Energy, Fuels, and Chemicals

By Donald L. Klass

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Biomass for Renewable Energy, Fuels, and Chemicals serves as a comprehensive introduction to the subject for the student and educator, and is useful for researchers who are interested in the technical details of biomass energy production. The coverage and discussion are multidisciplinary, reflecting the many scientific and engineering disciplines involved. The book will appeal to a broad range of energy professionals and specialists, farmers and foresters who are searching for methods of selecting, growing, and converting energy crops, entrepreneurs who are commercializing biomass energy projects, and those involved in designing solid and liquid waste disposal-energy recovery systems.

- Presents a graduated treatment from basic principles to the details of specific technologies
- Includes a critical analysis of many biomass energy research and commercialization activities
- Proposes several new technical approaches to improve efficiencies, net energy production, and economics
- Reviews failed projects, as well as successes, and methods for overcoming barriers to commercialization
- Written by a leader in the field with 40 years of educational, research, and commercialization experience

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Editorial Review

Review

"It is extremely thorough, detailed, and well documented. Topics are explained in great detail. The book stands as one of the best published on the subject in recent times. It can be used by the professional or student alike, since the in-depth treatment of principles and practices allow information retrieval at different levels of complexity. It is a good technical reference and will serve as an important textbook for many years." --**JOURNAL OF ENVIRONMENTAL QUALITY, March-April 2000**

"This book provides an excellent and worthwhile text for anyone with an interest in practical ways to secure our future energy supplies." --**BIOLOGICAL AGRICULTURE AND HORTICULTURE**

"This book will be useful to a wide range of teachers and lecturers. Those working in schools and colleges will find it a treasure store of useful information to enliven their teaching, especially as there are very useful figures and tables. Those working at a higher level will appreciate the rigorous nature of the work along with the extensive list of references." --**CHEMISTRY IN BRITAIN, May 1999**

"Klass offers a very thorough analysis of the need for biomass fuels, their production and use. It is a superb resource with an impressive review of the potential of many crops and resources to serve energy needs....a resource to be widely used and appreciated. Upper-division undergraduates through professionals; two-year technical program students." --**CHOICE, 1999**

"A good introductory volume for those requiring information on commercialising biomass energy products and on solid and liquid waste disposal energy recovery systems." --**WASTE PLANNING, A MINERAL PLANNING PUBLICATION, March 1999**

From the Back Cover

The oil shocks of the 1970s and 1980s caused remarkable changes in the national energy policies of most industrialized nations, including the start of intensive research programs to develop biomass energy resources. Biomass is virtually the only indigenous, renewable, widely distributed natural resource capable of supplying heat, steam, and electric power, as well as solid, liquid, and gaseous organic fuels and commodity chemicals that are manufactured from fossil fuels. Biomass energy is expected to play a major role in the energy economies and security of many nations in the 21st century as we approach the end of the fossil fuel era. This book addresses the history of biomass energy research, its development, deployment efforts, the environmental impact of biomass energy usage, its potential for replacing fossil fuels, many commercial systems already in place, and conventional and advanced biomass energy technologies.

Biomass for Renewable Energy, Fuels, and Chemicals serves as a comprehensive introduction to the subject for the student and the educator and is useful for researchers who are interested in the technical details of biomass energy production. The coverage and discussion are multidisciplinary, reflecting the many scientific and engineering disciplines involved. The book will appeal to a broad range of energy professionals and specialists, farmers and foresters who are searching for methods of selecting, growing, and converting energy crops, entrepreneurs who are commercializing biomass energy projects, and those involved in designing solid and liquid waste disposal-energy recovery systems.

About the Author

Dr. Donald L. Klass is the author or co-author of over 300 papers and patents and the editor of 27 books in the field of energy and the environment. He received his B.S. in chemistry from the University of Illinois, and his A.M. and Ph.D. in organic chemistry from Harvard University. Dr. Klass has managed research and educational programs for the Institute of Gas Technology and the petroleum industry. Currently, he is the Research Director for Entech International, Inc., President of the Biomass Energy Research Association, a member of several research advisory boards and business development committees, and a consultant to industry and government, both U.S. and foreign.

Users Review

From reader reviews:

Kelli Ross:

The experience that you get from Biomass for Renewable Energy, Fuels, and Chemicals will be the more deep you rooting the information that hide inside the words the more you get enthusiastic about reading it. It doesn't mean that this book is hard to know but Biomass for Renewable Energy, Fuels, and Chemicals giving you buzz feeling of reading. The article author conveys their point in selected way that can be understood by anyone who read this because the author of this guide is well-known enough. That book also makes your vocabulary increase well. Making it easy to understand then can go along, both in printed or e-book style are available. We recommend you for having that Biomass for Renewable Energy, Fuels, and Chemicals instantly.

Justin Price:

The guide untitled Biomass for Renewable Energy, Fuels, and Chemicals is the guide that recommended to you to read. You can see the quality of the book content that will be shown to you. The language that writer use to explained their ideas are easily to understand. The article author was did a lot of exploration when write the book, so the information that they share for you is absolutely accurate. You also could possibly get the e-book of Biomass for Renewable Energy, Fuels, and Chemicals from the publisher to make you a lot more enjoy free time.

Robert Nguyen:

A lot of people always spent all their free time to vacation as well as go to the outside with them family or their friend. Were you aware? Many a lot of people spent these people free time just watching TV, or playing video games all day long. If you want to try to find a new activity that is look different you can read a new book. It is really fun for you. If you enjoy the book that you just read you can spent the whole day to reading a reserve. The book Biomass for Renewable Energy, Fuels, and Chemicals it is quite good to read. There are a lot of folks that recommended this book. They were enjoying reading this book. When you did not have enough space bringing this book you can buy typically the e-book. You can m0ore easily to read this book through your smart phone. The price is not too expensive but this book features high quality.

Wilbert York:

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