Lignocellulosic Biomass Production and Industrial Applications  
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DESCRIPTION

*Lignocellulosic Biomass Production and Industrial Applications* describes the utilization of lignocellulosic biomass for various applications. Although there have been numerous reports on lignocellulosic biomass for biofuel application, there have been very few other applications reported for lignocellulosic biomass-based chemicals and polymers. Therefore, this book covers all of the possible lignocellulosic biomass applications. Besides describing the different types of biofuel production, such as bioethanol, biobutanol, biodiesel and biogas from lignocellulosic biomass, it also presents various other lignocellulosic biomass biorefinery applications for the production of chemicals, polymers, paper and bioplastics. In addition, there are chapters on valorization of lignocellulosic materials, alkali treatment to improve the physical, mechanical and chemical properties of lignocellulosic natural fibers, and a discussion of the major benefits, limitations and future prospects of the use of lignocellulosic biomass.

ABOUT THE AUTHOR

Audience

The book has a diverse audience. It will be particularly useful to scientists and researchers working in the renewable energy sector and lignocellulosic biorefinery application. The book will be also useful to academic researchers and industry engineers.
in the areas of fermentation technology, bioprocess engineering, enzymology, agricultural biotechnology, chemical and process engineering, bioplastics and polymer science.

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