



Biomass as a Sustainable Energy Source for the Future: Fundamentals of Conversion Processes

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DESCRIPTION

Focusing on the conversion of biomass into gas or liquid fuels the book covers physical pre-treatment technologies, thermal, chemical and biochemical conversion technologies

- Details the latest biomass characterization techniques
- Explains the biochemical and thermochemical conversion processes
- Discusses the development of integrated biorefineries, which are similar to petroleum refineries in concept, covering such topics as reactor configurations and downstream processing
- Describes how to mitigate the environmental risks when using biomass as fuel
- Includes many problems, small projects, sample calculations and industrial application examples

ABOUT THE AUTHOR

Wiebren de Jong is an associate professor at Delft University of Technology working in the Process & Energy department. He is involved as senior researcher in several EU and national projects concerning biomass pretreatment, combustion, gasification and biorefinery processes. He is co-author of more than 65 journal papers concerning thermal and chemical conversion of biomass.

J. Ruud van Ommen is an associate professor at Delft University of Technology working in the Chemical Engineering department. His current research focuses on Scaling up of nanotechnology processes, and monitoring and structuring of catalytic multiphase reactors, especially for energy related processes. He is co-author of more than 80 journal papers, of which about 25 concerning energy technology.

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