



Biomass Gasification, Pyrolysis and Torrefaction, Second Edition: Practical Design and Theory

Prabir Basu

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Biomass is the most widely used non-fossil fuel in the world. Biomass resources show a considerable potential in the long-term given the increasing proliferation of dedicated energy crops for biofuels. The second edition of *Biomass Gasification and Pyrolysis* is enhanced with new topics, such as torrefaction and cofiring, making it a versatile resource that not only explains the basic principles of energy conversion systems, but also provides valuable insight into the design of biomass conversion systems. This book will allow professionals, such as engineers, scientists, and operating personnel of biomass gasification, pyrolysis or torrefaction plants, to gain a better comprehension of the basics of biomass conversion. The author provides many worked out design problems, step-by-step design procedures and real data on commercially operating systems. With a dedicated focus on the design, analysis, and operational aspects of biomass gasification, pyrolysis, and torrefaction, *Biomass Gasification, Pyrolysis and Torrefaction, Second Edition* offers comprehensive coverage of biomass in its gas, liquid, and solid states in a single easy-to-access source.

- Contains new and updated step-by-step process flow diagrams, design data and conversion charts, and numerical examples with solutions
- Includes chapters dedicated to evolving torrefaction technologies, practicing option of biomass cofiring, and biomass conversion economics
- Expanded coverage of syngas and other Fischer-Tropsch alternatives
- Spotlights advanced processes such as supercritical water gasification and torrefaction of biomass.
- Provides available research results in an easy-to-use design methodology

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