



Biomass Gasification and Pyrolysis: Practical Design and Theory

Prabir Basu

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This book offers comprehensive coverage of the design, analysis, and operational aspects of biomass gasification, the key technology enabling the production of biofuels from all viable sources--some examples being sugar cane and switchgrass. This versatile resource not only explains the basic principles of energy conversion systems, but also provides valuable insight into the design of biomass gasifiers. The author provides many worked out design problems, step-by-step design procedures and real data on commercially operating systems. After fossil fuels, biomass is the most widely used fuel in the world. Biomass resources show a considerable potential in the long term if residues are properly handled and dedicated energy crops are grown.

Includes step-by-step design procedures and case studies for Biomass Gasification

Provides worked process flow diagrams for gasifier design.

Covers integration with other technologies (e.g. gas turbine, engine, fuel cells)

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