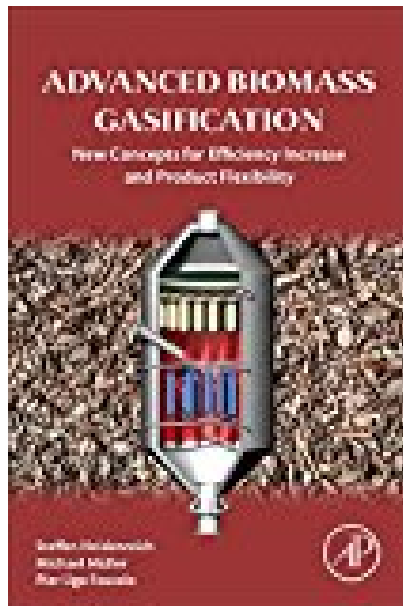


# Advanced Biomass Gasification New Concepts for Efficiency Increase and Product Flexibility

---



## BOOK DETAILS

- Author : Steffen Heidenreich
- Pages : 140 Pages
- Publisher : Academic Press
- Language : English
- ISBN : 0128042966



## BOOK SYNOPSIS

Advanced Biomass Gasification: New Concepts for Efficiency Increase and Product Flexibility provides a thorough overview on new concepts in biomass gasification and consolidated information on advances for process integration and combination, which could otherwise only be gained by reading a high number of journal publications. Heidenreich, Müller and Foscolo, highly respected experts in this field, start their exploration with the compact UNIQUE reactor, gasification and pyrolysis, gasification and combustion, and catalysts and membranes. The authors then examine biomass pre-treatment processes, taking into account the energy balance of the overall conversion process, and look into oxygen-steam gasification and solutions for air separation, including new options for integration of O<sub>2</sub>-membranes into the gasifier. Several polygeneration strategies are covered, including combined heat and power (CHP) production with synthetic natural gas (SNG), biofuels and hydrogen, and new cutting-edge concepts, such as plasma gasification, supercritical water gasification, and catalytic gasification, which allows for insights on the future technological outlook of the area. This book is then a valuable resource for industry and academia-based researchers, as well as graduate students in the energy and chemical sectors with interest in biomass gasification, especially in areas of power engineering, bioenergy, chemical engineering, and catalysis. Explores state-of-the-art technologies that allow for greater efficiency and flexibility in gasification, including process integration, combination, and polygeneration strategies Consolidates information that was, up until now, scattered among several sources, including journal articles Provides a valuable resource for industry and academia-based researchers, as well as graduate students in the energy and chemical sectors with interest in biomass gasification, especially in areas of power engineering, bioenergy, chemical engineering, and catalysis

**ADVANCED BIOMASS GASIFICATION NEW CONCEPTS FOR EFFICIENCY INCREASE AND PRODUCT FLEXIBILITY** - Are you looking for Ebook Advanced Biomass Gasification New Concepts For Efficiency Increase And Product Flexibility? You will be glad to know that right now Advanced Biomass Gasification New Concepts For Efficiency Increase And Product Flexibility is available on our online library. With our online resources, you can find Applied Numerical Methods With Matlab Solution Manual 3rd Edition or just about any type of ebooks, for any type of product.

Best of all, they are entirely free to find, use and download, so there is no cost or stress at all. Advanced Biomass Gasification New Concepts For Efficiency Increase And Product Flexibility may not make exciting reading, but Applied Numerical Methods With Matlab Solution Manual 3rd Edition is packed with valuable instructions, information and warnings. We also have many ebooks and user guide is also related with Advanced Biomass Gasification New Concepts For Efficiency Increase And Product Flexibility and many other ebooks.

We have made it easy for you to find a PDF Ebooks without any digging. And by having access to our ebooks online or by storing it on your computer, you have convenient answers with Advanced Biomass Gasification New Concepts For Efficiency Increase And Product Flexibility. To get started finding Advanced Biomass Gasification New Concepts For Efficiency Increase And Product Flexibility, you are right to find our website which has a comprehensive collection of manuals listed.