



# **Gasification for Synthetic Fuel Production: Fundamentals, Processes and Applications (Woodhead Publishing Series in Energy)**

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Gasification involves the conversion of carbon sources without combustion to syngas, which can be used as a fuel itself or further processed to synthetic fuels. The technology provides a potentially more efficient means of energy generation than direct combustion. This book provides an overview of gasification science and engineering and the production of synthetic fuels by gasification from a variety of feedstocks. Part one introduces gasification, reviewing the scientific basis of the process and gasification engineering. Part two then addresses gasification and synthetic fuel production processes. Finally, chapters in part three outline the different applications of gasification, with chapters on the conversion of different types of feedstock.

- Examines the design of gasifiers, the preparation of feedstocks, and the economic, environmental and policy issues related to gasification
- Reviews gasification processes for liquid fuel production
- Outlines the different applications of gasification technology



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