



## Gasification, Second Edition

*By Christopher Higman, Maarten van der Burgt*

Download now

Read Online ➔

**Gasification, Second Edition** By Christopher Higman, Maarten van der Burgt

Gasification is a process that if properly utilized can transform the world in which we live. Comprehensive in its coverage, this second edition continues the tradition of the first by providing engineers and scientists with an up-to-date overview of commercial processes and applications relevant to today's demands. Gasification, 2nd edition is expanded and provides more detail on the integration issues for current generation, state-of-the-art Integrated Gasification Combined Cycles (IGCC); CO<sub>2</sub> capture in the IGCC context addressing the issues of pre-investment and retrofitting as well as defining what the term "CO<sub>2</sub> capture ready" might mean in practice; issues of plant reliability, availability and maintainability (RAM) including as evaluation of feedback from existing plants; implementation of fuel cell technology in IGCC concepts. All statistics, processes and projects, including descriptions of a number of processes not covered in the previous edition.

- \*Up-to-date overview of commercial processes
- \*Covers applications relevant to today's demands
- \*Addresses the issues of pre-investment and retrofitting
- \*Provides more detail on the integration issues for Integrated Gasification

 [Download Gasification, Second Edition ...pdf](#)

 [Read Online Gasification, Second Edition ...pdf](#)

# Gasification, Second Edition

*By Christopher Higman, Maarten van der Burgt*

## **Gasification, Second Edition** By Christopher Higman, Maarten van der Burgt

Gasification is a process that if properly utilized can transform the world in which we live. Comprehensive in its coverage, this second edition continues the tradition of the first by providing engineers and scientists with an up-to-date overview of commercial processes and applications relevant to today's demands. Gasification, 2nd edition is expanded and provides more detail on the integration issues for current generation, state-of-the-art Integrated Gasification Combined Cycles (IGCC); CO<sub>2</sub> capture in the IGCC context addressing the issues of pre-investment and retrofitting as well as defining what the term "CO<sub>2</sub> capture ready" might mean in practice; issues of plant reliability, availability and maintainability (RAM) including an evaluation of feedback from existing plants; implementation of fuel cell technology in IGCC concepts. All statistics, processes and projects, including descriptions of a number of processes not covered in the previous edition.

\*Up-to-date overview of commercial processes

\*Covers applications relevant to today's demands

\*Addresses the issues of pre-investment and retrofitting

\*Provides more detail on the integration issues for Integrated Gasification

## **Gasification, Second Edition** By Christopher Higman, Maarten van der Burgt Bibliography

- Sales Rank: #1643830 in Books
- Brand: Brand: Gulf Professional Publishing
- Published on: 2008-03-11
- Original language: English
- Number of items: 1
- Dimensions: 9.02" h x 1.00" w x 5.98" l, 1.87 pounds
- Binding: Hardcover
- 456 pages

 [Download Gasification, Second Edition ...pdf](#)

 [Read Online Gasification, Second Edition ...pdf](#)

## **Editorial Review**

### **Review**

"This proposed edition and the previous one provide information on a "hot topic" area, gasification. As our petroleum sources dwindle, it is essential that we seek other raw material sources like tar sand, coal, ignite, etc. to provide our needs. Gasification is an essential process to meet these needs, therefore, this book is at the forefront of this technology."

James R. Couper  
University of Arkansas

"The revised edition has a tremendous potential in attracting readers on such an important technology which serves as an alternative to using crude oil or natural gas. Gasification processes are more important with the escalating costs of other sources of energy with environmental issues and other demands by governmental agencies. Fuel cell technology with Integrated gasification combined cycle is very promising and exciting to engineers, scientists and technologists. I fully endorse the revised edition to further inform engineers, scientists, technologist and consultants in the field of gasification. There are simply very few texts on the market on this essential topic. With their immense experience and background, Higman's and van der Burgt's revised text will further enlighten engineers, scientists and technologists on gasification technology."

Kayode Coker  
Jubail Industrial College

"THIS IS THE SINGLE BEST REFERENCE FOR AN UP-TO-DATE, COMPREHENSIVE OVERVIEW OF GASIFICATION TECHNOLOGIES AND THE TECHNOLOGIES ENCOMPASSED IN A COMMERCIAL GASIFICATION PLANT. THIS BOOK IS REQUIRED READING FOR ANYONE WHO HAS A SERIOUS INTEREST IN GASIFICATION AND IGCC."

Jim Falsetti  
Process Energys

"This book would have broad appeal in the energy and, perhaps, energy policy sectors. Expect it to be read by Chief Engineer, Design Engineer, Professor and Policy Analyst in that order.

I belive this would be an important book, given the rapid increase in alternative energy technologies."

Dr. Richard Ulrich,  
Univ. of Arkansas

### **About the Author**

Christopher Higman graduated in 1966 from the University of Oxford and received his M.Sc. from the University of the Witwatersrand, Johannesburg. His first contact with gasification was commissioning a producer gas plant in South Africa in 1968. He jopined Lurgi in 1975 and where he spent the next 27 years, mostly involved with gasification and related technologies. He has been responsible for design, project

management and start up of a number of ammonia and methanol plants based on the gasification of heavy residues. Other projects for which he was responsible include the gas production units at both the Bintulu and Mossel Bay gas-to-liquids plants and the IGCC/hydrogen production facility at Shell's Pernis, Netherlands refinery. Before taking up a corporate management position in 1997, he was Head of Gas Technology at Lurgi Öl-Gas-Chemie GmbH.

He is the author of various papers on gasification technology and is a contributor to "Ullmann's Encyclopaedia of Industrial Chemistry". He has also been a visiting lecturer at the College of Petroleum and Energy Studies in Oxford. He has a number of patents in the field.

At present Mr. Higman is researching into aspects of soot management in heavy oil gasification plants at the Engler-Bunte-Institute at the University of Karlsruhe.

## **Users Review**

### **From reader reviews:**

#### **Frank Johnson:**

What do you consider book? It is just for students since they are still students or this for all people in the world, what the best subject for that? Simply you can be answered for that query above. Every person has distinct personality and hobby per other. Don't to be pushed someone or something that they don't wish do that. You must know how great and also important the book Gasification, Second Edition. All type of book would you see on many resources. You can look for the internet sources or other social media.

#### **Victor Banister:**

Book is to be different for each grade. Book for children until finally adult are different content. As you may know that book is very important usually. The book Gasification, Second Edition was making you to know about other knowledge and of course you can take more information. It is very advantages for you. The guide Gasification, Second Edition is not only giving you a lot more new information but also being your friend when you really feel bored. You can spend your spend time to read your publication. Try to make relationship while using book Gasification, Second Edition. You never truly feel lose out for everything if you read some books.

#### **Shanon Stephens:**

Information is provisions for anyone to get better life, information today can get by anyone on everywhere. The information can be a information or any news even a concern. What people must be consider if those information which is inside former life are challenging be find than now is taking seriously which one is suitable to believe or which one typically the resource are convinced. If you have the unstable resource then you understand it as your main information you will have huge disadvantage for you. All those possibilities will not happen inside you if you take Gasification, Second Edition as your daily resource information.

**Patrick Bergeron:**

As we know that book is very important thing to add our know-how for everything. By a book we can know everything we want. A book is a set of written, printed, illustrated or maybe blank sheet. Every year seemed to be exactly added. This book Gasification, Second Edition was filled in relation to science. Spend your free time to add your knowledge about your scientific disciplines competence. Some people has diverse feel when they reading some sort of book. If you know how big benefit from a book, you can really feel enjoy to read a book. In the modern era like at this point, many ways to get book that you simply wanted.

**Download and Read Online Gasification, Second Edition By  
Christopher Higman, Maarten van der Burgt #QBYXD9OPL3F**

## **Read Gasification, Second Edition By Christopher Higman, Maarten van der Burgt for online ebook**

Gasification, Second Edition By Christopher Higman, Maarten van der Burgt Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Gasification, Second Edition By Christopher Higman, Maarten van der Burgt books to read online.

### **Online Gasification, Second Edition By Christopher Higman, Maarten van der Burgt ebook PDF download**

#### **Gasification, Second Edition By Christopher Higman, Maarten van der Burgt Doc**

Gasification, Second Edition By Christopher Higman, Maarten van der Burgt Mobipocket

Gasification, Second Edition By Christopher Higman, Maarten van der Burgt EPub

QBYXD9OPL3F: Gasification, Second Edition By Christopher Higman, Maarten van der Burgt