



# Chemical Process Technology

By Jacob A. Moulijn, Michiel Makkee, Annelies E. van Diepen

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**Chemical Process Technology** By Jacob A. Moulijn, Michiel Makkee, Annelies E. van Diepen

With a focus on actual industrial processes, e.g. the production of light alkenes, synthesis gas, fine chemicals, polyethylene, it encourages the reader to think “out of the box” and invent and develop novel unit operations and processes. Reflecting today’s emphasis on sustainability, this edition contains new coverage of biomass as an alternative to fossil fuels, and process intensification.

## The second edition includes:

- New chapters on Process Intensification and Processes for the Conversion of Biomass
- Updated and expanded chapters throughout with 35% new material overall
- Text boxes containing case studies and examples from various different industries, e.g. synthesis loop designs, Sasol I Plant, Kaminsky catalysts, production of Ibuprofen, click chemistry, ammonia synthesis, fluid catalytic cracking
- Questions throughout to stimulate debate and keep students awake!
- Richly illustrated chapters with improved figures and flow diagrams

*Chemical Process Technology, Second Edition* is a comprehensive introduction, linking the fundamental theory and concepts to the applied nature of the subject. It will be invaluable to students of chemical engineering, biotechnology and industrial chemistry, as well as practising chemical engineers.

## From reviews of the first edition:

*“The authors have blended process technology, chemistry and thermodynamics in an elegant manner... Overall this is a welcome addition to books on chemical technology.”* – The Chemist

*“Impressively wide-ranging and comprehensive... an excellent textbook for students, with a combination of fundamental knowledge and technology.”* – Chemistry in Britain (now Chemistry World)

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## **Editorial Review**

### **Review**

"...a welcome addition to books on chemical technology? a valuable book..." (*The Chemist*, Summer 2003)

### **From the Back Cover**

Chemical Process Technology is a comprehensive introduction, examining both the fundamental concepts and applied nature of this subject. Modern process development relies on a knowledge of many different disciplines and an application and integration of this knowledge. Chemical Process Technology provides an essential bridge between the chemical sciences and the chemical industry. It enables the reader to integrate fundamental knowledge of the basic disciplines, to understand the most important chemical processes, and to apply this knowledge and understanding to industrial processes.

This innovative textbook examines both large-scale and small-scale chemical and biotechnology industries and aims to bring to life the concepts that form the basis of the process industry. Starting with a general look at the industry, subsequent chapters examine different processes in greater detail. Emphasis tends to be placed on chemical reactions and the reactor, both at the heart of each process, but coverage also includes feed pre-treatment and product separation.

### **Features:**

- \* A comprehensive and balanced introduction, providing an essential link between chemistry and the chemical industry
- \* Includes problems with their solutions to encourage a fuller understanding of the project.
- \* Many examples and case studies taken from a variety of modern industries
- \* Richly illustrated chapters, with many clearly developed flow diagrams and numerous figures

Chemical Process Technology will be invaluable to all students of chemical engineering, biotechnology and industrial chemistry who need a modern introduction to chemical reactions and processes. The book will also be of interest to researchers and professionals needing a concise, up-to-date text on this diverse subject.

### **About the Author**

Jacob Moulijn, Michiel Makkee, Annelies van Diepen, Delft University of Technology

## **Users Review**

### **From reader reviews:**

#### **Susan Velez:**

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