



Chemical Process Technology

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

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With a focus on actual industrial processes, e.g. the production of light alkenes, synthesis gas, fine chemicals, polyethene, 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

“In conclusion, this excellent textbook is highly recommended to those readers wishing to have up-to-date knowledge of the chemical industry and its processes. Organic chemists, in particular, will learn the chemical engineer’s approach to process design and process development and will appreciate the differences and hopefully understand how the methods used for bulk chemicals can be used for more complex molecules book.” (*Organic Process Research & Development*, 1 September 2014)

“The book could serve as a valuable text for lower-level chemical engineering students, but it could also be useful to professionals in biotechnology and industrial chemistry. Summing Up: Recommended. All academic, two-year technical program, and professional engineering collections.” (*Choice*, 1 December 2013)

From the Back Cover

Chemical process technology is a broad area that brings together expertise in chemical engineering, chemistry and biotechnology, as well as project management, and the economic and environmental aspects of process and product development. This book provides an essential bridge between the chemical sciences and the chemical industry.

With a focus on actual industrial processes, e.g. the production of light alkenes, synthesis gas, fine chemicals, polyethene, 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.

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Praise for the best-selling first edition

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About the Author

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