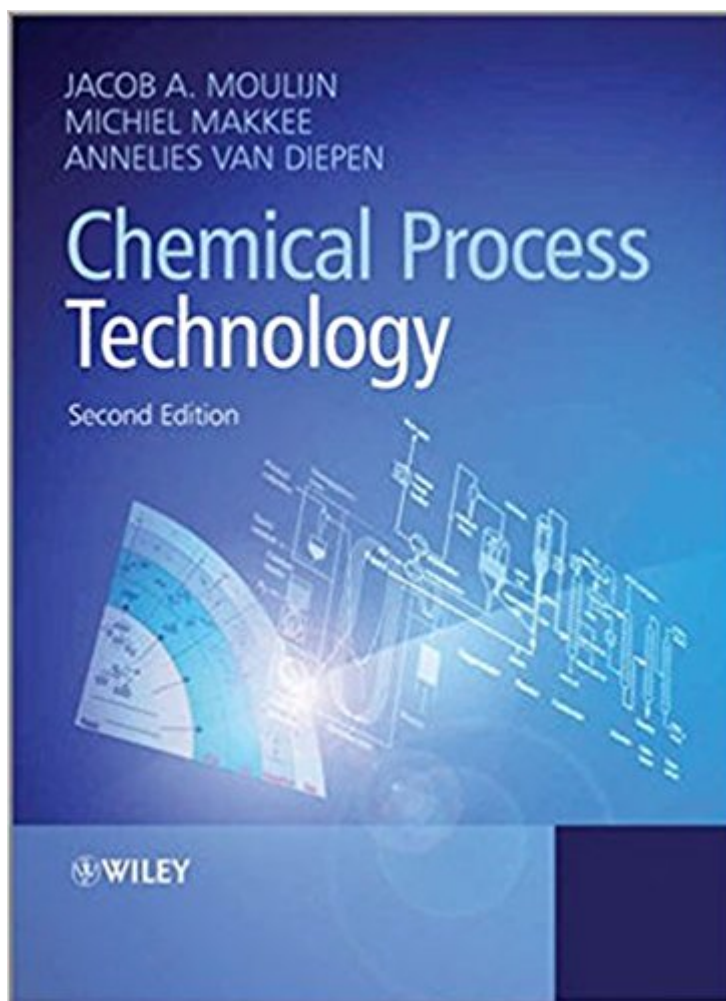


The book was found

Chemical Process Technology



Synopsis

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.

“Impressively wide-ranging and comprehensive” | an excellent textbook for students, with a combination of fundamental knowledge and technology.

The Chemist
Chemistry in Britain (now Chemistry World)

Book Information

Paperback: 566 pages

Publisher: Wiley; 2 edition (May 28, 2013)

Language: English

ISBN-10: 1444320254

ISBN-13: 978-1444320251

Product Dimensions: 7.5 x 1.1 x 9.7 inches

Shipping Weight: 2.8 pounds (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars 3 customer reviews

Best Sellers Rank: #714,148 in Books (See Top 100 in Books) #229 in Books > Science & Math > Chemistry > Industrial & Technical #455 in Books > Textbooks > Engineering > Chemical Engineering #890 in Books > Engineering & Transportation > Engineering >

Customer Reviews

“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)

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. 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. Praise for the best-selling first edition From The Chemist, Summer 2003 “The authors have blended process technology, chemistry and thermodynamics in an elegant manner| Overall

this is a welcome addition to books on chemical technology. — From Chemistry in Britain (now Chemistry World), July 2001 — “Impressively wide-ranging and comprehensive... an excellent textbook for students, with a combination of fundamental knowledge and technology. —

Best introductory textbook for chemical process technology. I hope it gets even better with future editions.

Very clean and good bok. Thx.

Please note I'm reviewing the 2001 printing (obtained at the local library) -- but it seems unlikely that the book has changed fundamentally. This book is a SURVEY of various processes for large-scale chemical engineering, NOT a textbook. It has lots and lots of examples of how specific chemicals are produced, with schematic diagrams of the reaction hardware. But if you don't already know how everything works, you will not learn it here. A large number of reaction schemes are shown, but no explanation is provided about why they work the way they do. Numerous statements are made about mass transfer and fluid flow, but the book does not mention either the Reynolds or Peclet numbers that characterize the regimes of operation with respect to these processes. The Thiele modulus, important for describing simultaneous diffusion and reaction in narrow channels characteristic of catalysis, is simply pulled out of a hat with no explanation of its physical origin. So don't buy this book if you are trying to UNDERSTAND a reaction or reaction vessel: it won't help. But if you want to know the names and general characteristics of all the different ways people produce chemical substances, this is a useful volume.

[Download to continue reading...](#)

Chemical Process Safety: Fundamentals with Applications (3rd Edition) (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Chemical Process Technology Guidelines for Postrelease Mitigation Technology in the Chemical Process Industry Blockchain: Step By Step Guide To Understanding The Blockchain Revolution And The Technology Behind It (Information Technology, Blockchain For Beginners, Bitcoin, Blockchain Technology) Fintech: Simple and Easy Guide to Financial Technology (Fin Tech, Fintech Bitcoin, financial technology fintech, Fintech Innovation, Fintech Gold, ... technology, equity crowdfunding) (Volume 1) FINTECH: Simple and Easy Guide to Financial Technology (Fin Tech, Fintech Bitcoin, financial technology fintech, Fintech Innovation, Fintech Gold, Financial services technology, equity crowdfunding) Fluid Mechanics for Chemical Engineers (McGraw-Hill Chemical Engineering) Unit Operations of

Chemical Engineering (7th edition)(McGraw Hill Chemical Engineering Series) Fluid Mechanics for Chemical Engineers (UK Higher Education Engineering Chemical Engineering) Introduction to Chemical Engineering Thermodynamics (The McGraw-Hill Chemical Engineering Series) Fundamentals of Chemical Engineering Thermodynamics (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Advances in Chemical Physics, Volume 15: Stochastic Processes in Chemical Physics (v. 15) Healing Severe Chemical and EMF Sensitivity: Our Breakthrough Cure for Multiple Chemical Sensitivities (MCS) and Electro-hypersensitivity (EHS) Basic Principles and Calculations in Chemical Engineering (8th Edition) (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Kinetics of Chemical Processes: Butterworth-Heinemann Series in Chemical Engineering Solvent Effects and Chemical Reactivity (Understanding Chemical Reactivity) Contemporary Theory of Chemical Isomerism (Understanding Chemical Reactivity) Chemical Reactions and Chemical Reactors Chemical Oscillations and Instabilities: Non-linear Chemical Kinetics (International Series of Monographs on Chemistry) Elements of Chemical Reaction Engineering (5th Edition) (Prentice Hall International Series in the Physical and Chemical Engineering Sciences)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)