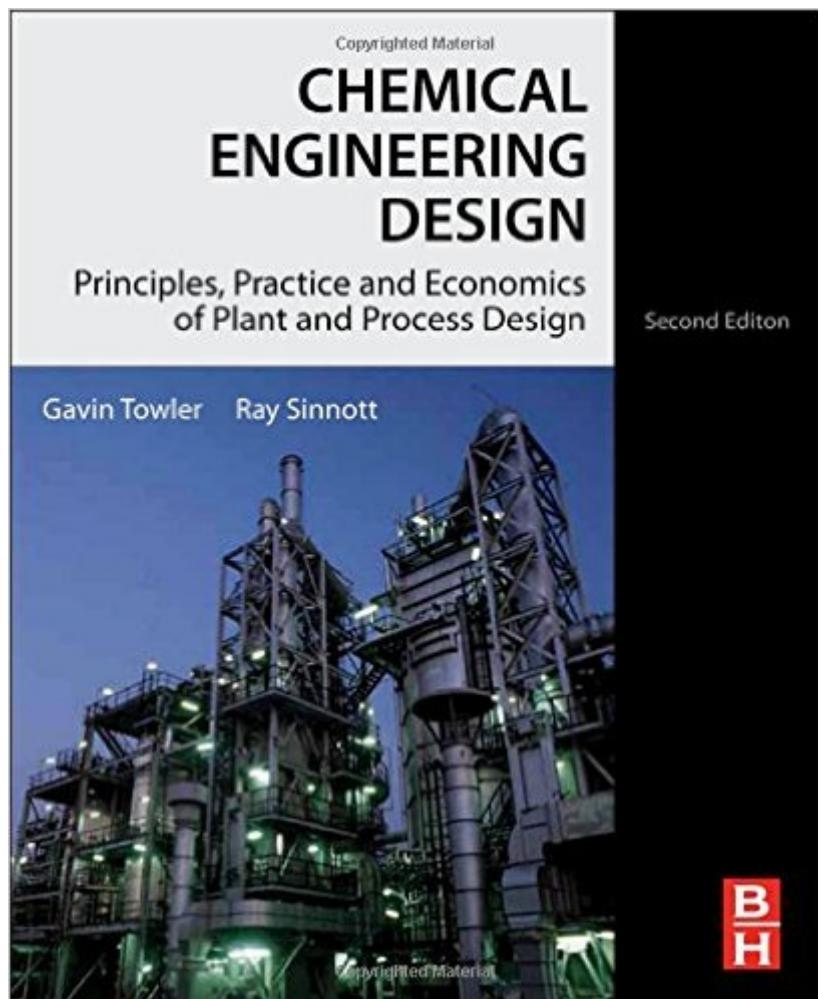


The book was found

# Chemical Engineering Design, Second Edition: Principles, Practice And Economics Of Plant And Process Design



## Synopsis

"Bottom line: For a holistic view of chemical engineering design, this book provides as much, if not more, than any other book available on the topic" --Extract from Chemical Engineering Resources review Chemical Engineering Design is a complete course text for students of chemical engineering. Written for the Senior Design Course, and also suitable for introduction to chemical engineering courses, it covers the basics of unit operations and the latest aspects of process design, equipment selection, plant and operating economics, safety and loss prevention. It is a textbook that students will want to keep through their undergraduate education and on into their professional lives. New to this edition: Revised organization into Part I: Process Design, and Part II: Plant Design. The broad themes of Part I are flowsheet development, economic analysis, safety and environmental impact and optimization. Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects. New discussion of conceptual plant design, flowsheet development and revamp design. Significantly increased coverage of capital cost estimation, process costing and economics. New chapters on equipment selection, reactor design and solids handling processes. New sections on fermentation, adsorption, membrane separations, ion exchange and chromatography. Increased coverage of batch processing, food, pharmaceutical and biological processes. All equipment chapters in Part II revised and updated with current information. Updated throughout for latest US codes and standards, including API, ASME and ISA design codes and ANSI standards. Additional worked examples and homework problems. The most complete and up to date coverage of equipment selection. 108 realistic commercial design projects from diverse industries. A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data and Excel spreadsheet calculations plus over 150 Patent References, for downloading from the companion website. Extensive instructor resources: 1170 lecture slides plus fully worked solutions manual available to adopting instructors.

## Book Information

Hardcover: 1320 pages

Publisher: Butterworth-Heinemann; 2 edition (January 27, 2012)

Language: English

ISBN-10: 0080966594

ISBN-13: 978-0080966595

Product Dimensions: 7.5 x 1.7 x 9.3 inches

Shipping Weight: 4.6 pounds (View shipping rates and policies)

Average Customer Review: 4.8 out of 5 starsÂ  See all reviewsÂ  (23 customer reviews)

Best Sellers Rank: #65,530 in Books (See Top 100 in Books) #1 inÂ  Books > Engineering & Transportation > Engineering > Chemical > Plant Design #3 inÂ  Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Economics #5 inÂ  Books > Engineering & Transportation > Engineering > Design

## Customer Reviews

"An essential support text for the traditional design product. ...Well written, it is easy to read and is superbly indexed" --Trans IChemE Â "Bottom line: For a holistic view of chemical engineering design, this book provides as much, if not more, than any other book available on the topic. Nearly every subject is accompanied by examples and new technologies are also addressed. In short, a complete, well-written and illustrated resource that is a pleasure to use." --From [www.cheresources.com](http://www.cheresources.com) (Chemical Engineering Resources) "Chemical Engineering Design is a complete text for students of chemical engineering. Written for the senior design course, and also suitable for introduction to chemical engineering courses, it covers the basics of unit operations and the latest aspects of process design, equipment selection, plant and operating economics, safety and loss prevention. It includes detailed worked examples, case studies, end-of-chapter exercises, plus supporting data, spreadsheet calculations and equipment specification sheets for downloading." --Chemical Engineering Progress "The book was originally written by British chemical engineer Sinnott as Volume Six of the Chemical Engineering series edited by Coulson and Richardson. It was intended as a stand-alone design textbook for undergraduate design projects that would supplement the other volumes, so it was no long stretch to publish it separately in 2008. Towler (chemical engineering, Northwestern U., Illinois) helped update and revise it, and integrated US laws, codes, and standards into it. This second edition takes account of comments about strengths and weaknesses by students and instructors. It also is rearranged to fit a typical two-course senior design sequence better, focusing first on process design then on plant design." --Reference and Research Book News, Inc.

â ^Bottom line: For a holistic view of chemical engineering design, this book provides as much, if not more, than any other book available on the topic.â ™ Extract from Chemical Engineering Resources review. Chemical Engineering Design is a complete course text for students of chemical engineering. Written for the Senior Design Course, and also suitable for introduction to chemical

engineering courses, it covers the basics of unit operations and the latest aspects of process design, equipment selection, plant and operating economics, safety and loss prevention. It is a textbook that students will want to keep through their undergraduate education and on into their professional lives.

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

Chemical Engineering Design, Second Edition: Principles, Practice and Economics of Plant and Process Design Chemical Engineering Design: Principles, Practice and Economics of Plant and Process Design Plant Design and Economics for Chemical Engineers Chemical Engineering Design and Analysis: An Introduction (Cambridge Series in Chemical Engineering) The Principles of Chemical Equilibrium: With Applications in Chemistry and Chemical Engineering Analysis, Synthesis and Design of Chemical Processes (4th Edition) (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) 4th (fourth) Edition by Turton, Richard, Bailie, Richard, Whiting, Wallace B., Shaei [2012] Plant Guidelines for Technical Management of Chemical Process Safety Handbook of Chemical Compound Data for Process Safety (Library of Physico-Chemical Property Data) Analysis of Engineering Design Studies for Demilitarization of Assembled Chemical Weapons at Pueblo Chemical Depot (The Compass series) Handbook of Fire and Explosion Protection Engineering Principles, Second Edition: for Oil, Gas, Chemical and Related Facilities FIBER OPTIC NETWORKS outside plant construction & project management techniques: A Guide to Outside Plant Engineering Wetland Economics, 1989-1993: A Selected, Annotated Bibliography (Bibliographies and Indexes in Economics and Economic History) Stochastic Methods in Economics and Finance, Volume 17 (Advanced Textbooks in Economics) Fluid Mechanics for Chemical Engineers (McGraw-Hill Chemical Engineering) Kinetics of Chemical Processes: Butterworth-Heinemann Series in Chemical Engineering Plant and Process Engineering 360 Process Fluid Mechanics, (Prentice-Hall International Series in the Physical and Chemical Engineering Sciences) Separation Process Principles with Applications Using Process Simulators Groups: Process and Practice, 9th Edition (HSE 112 Group Process I) Groups: Process and Practice (HSE 112 Group Process I)

[Dmca](#)