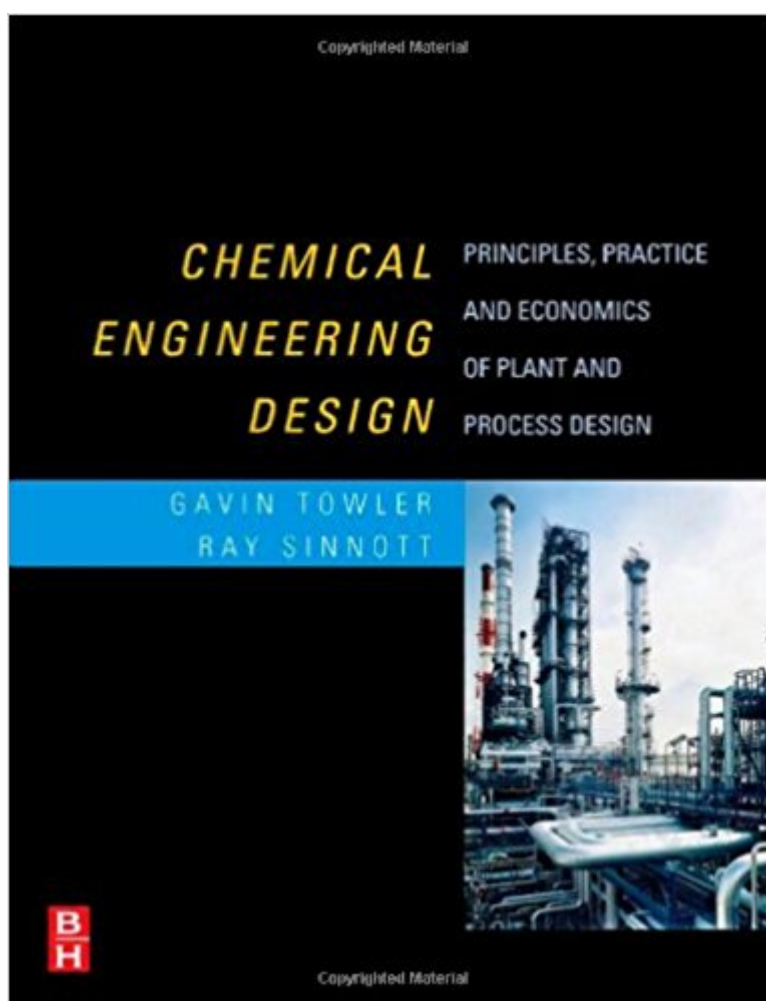


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# Chemical Engineering Design: Principles, Practice And Economics Of Plant And Process Design



## 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 one of the best-known and widely adopted texts available for students of chemical engineering. It deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this US edition has been specifically developed for the US market. It covers the latest aspects of process design, operations, safety, loss prevention and equipment selection, among others. Comprehensive in coverage, exhaustive in detail, it is supported by extensive problems and a separate solutions manual for adopting tutors and lecturers. In addition, the book is widely used by professions as a day-to-day reference. Provides students with a text of unmatched relevance for the Senior Design Course and Introductory Chemical Engineering Courses Teaches commercial engineering tools for simulation and costing Comprehensive coverage of unit operations, design and economics Strong emphasis on HS&E issues, codes and standards, including API, ASME and ISA design codes and ANSI standards 108 realistic commercial design projects from diverse industries

## Book Information

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## Customer Reviews

' An essential support text for the traditional design product. ...Well written, it is easy to read and is superbly indexed' Trans IChemE 'An excellent book for professionals and university students... you can find everything you need about mass and heat transfer.' Mehmet Aras,

Bayer. From [www.cheresources.com](http://www.cheresources.com) (Chemical Engineering Resources): "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." "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

"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. --This text refers to an alternate Hardcover edition.

I'm using this book for my Chemical Engineering Process Design I and II classes. It has been very useful for assignments, and is relatively easy to read, although economics stuff is sometimes a bit dry. The examples are good, and the supplemental material online has also been very good. It is a good book, with some useful review of heat transfer, and fundamental chemical engineering principles.

Towler and Sinnott's book provides a good overview of process design covers flowsheet layout, simulation, estimation of operating and capital costs, profitability analysis and optimization. The book then covers preliminary equipment design, including pressure vessels, reactors, separators, columns, solids handling equipment, heat exchangers and fluid hydraulics. This is a good overview of process design.

This text was used for two chemical engineering design courses, and has been one of the better texts I've owned. It provided costing and sizing templates that were useful when solving problems. I'll definitely keep it for future reference.

The book isn't particularly good at certain examples.

The various topics covered are done with excellent professional approach and would appeal to engineering students and professionals in the field alike. One would treasure the knowledge acquired after reading this book and can certainly make the best use of it in his respective field of application.

It can be helpful to know the background of the person leaving the review: I obtained both a Bachelor's and Master's degree from the University of Toledo, and for the last three years, I have worked both as a process and process control engineer in industry (2007-2010). Before I purchased a process control book, I did much research and I know now that I made the right decision. Whether you are student who is trying to learn process design for the first time or if you are already in your career (academia or industry), this is a book that compiles much information in one place. The chemical engineering student, as well as the process engineer in industry, would benefit from this wealth of information pertaining to the design of unit operations equipment. Now I use this as reference material for potential, future capital projects at work.

love this book.

Excellent book, I have used it with my students this year and I think it is very useful especially the approach of the examples to practice. Also is very specific in the activity of chemical engineers

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