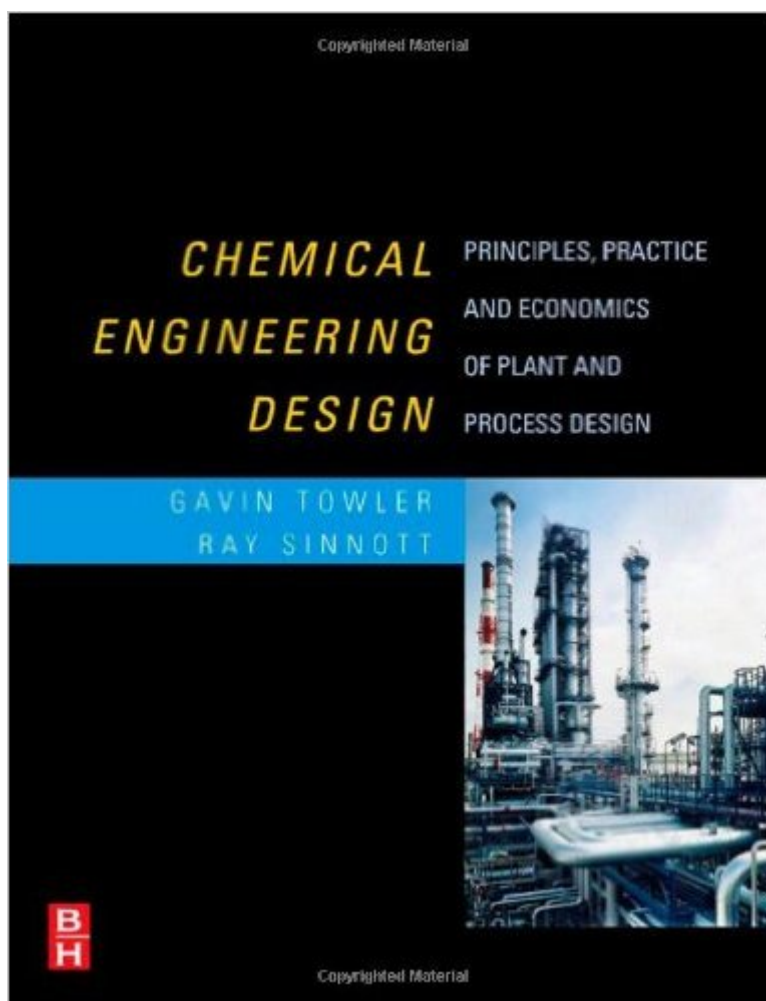


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# Chemical Engineering Design: Principles, Practice And Economics Of Plant And Process Design



## 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 \* 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 on CD plus fully worked solutions manual

## Book Information

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## Customer Reviews

\*\*\*\*\*"The art and practice of design cannot be learned from books. The intuition and judgement necessary to apply theory to practice will come only from practical experience." --Ray Sinnott, Ch. Engineer, Manual Co-author\*This articulate systematic guide to Chemical Engineering Design introduces the subject of a graduate level study of the process design principles, practice and plant economics, and serves as a hand book for Chemical project Engineers. The expert authors come from UOP, pioneering licensors of oil and gas (catalytic) processes, and Chemical manufacturer Dupont, who eloquently explore hands on experience in design, and evaluation of CPI/HPI projects. Their approach is in two parts, Process Design: the software, and Plant Design, projecting in detail the hardware selection, design and specification, a mere 1300 pages, in twenty chapters. In Part I, Process Design unfolds as the 'engineering package, set by owners to engineering contractors, in a call for tenders. This covers the design basis, and the project structure Flow chart, and describes the design documents. Starting with PF development to a P&I D as the main detailed piping and instrument diagram. two main roots are discussed, the grass roots and modification of existing units (Revamp), PFD review slightly different, in both cases. Process reviews are discussed on all levels. Chapter 3 discusses utilities and energy management/ recovery. Process Simulation follows covering programs, physical properties, and optimization. Chapter 5 cover Process control, starting from P&I D, describing Alarms, Safety trips & interlocks, and computer control systems (initiated in the 70's, with problems and references.

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