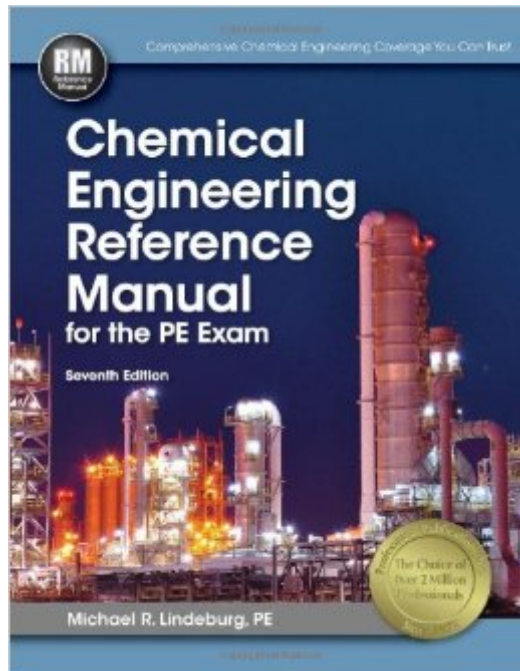


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# Chemical Engineering Reference Manual, 7th Ed



## Synopsis

Comprehensive Chemical Engineering Coverage You Can Trust. The Chemical Engineering Reference Manual is the most comprehensive textbook for the Chemical PE exam. This book's time-tested organization and clear explanations start with the basics to help you quickly get back up to speed with common chemical engineering concepts. Together, the 66 chapters provide an in-depth review of NCEES Chemical PE exam topics. Numerous features in this reference are designed to help you quickly find what you're looking for. The index contains thousands of terms, most indexed in multiple ways, in anticipation of how you'll search for them.

Cross-references to hundreds of equations, figures, and tables guide you to related support material. Features of the Chemical Engineering Reference Manual

- Over 60 appendices containing essential support material
- Over 350 clarifying example problems
- Thousands of equations, figures, and tables
- Industry-standard terminology and nomenclature
- Equal support of U.S. customary and SI units

Once you pass your exam, the Chemical Engineering Reference Manual will continue to serve as an invaluable reference throughout your chemical engineering career.

Topics Covered: Fluids Thermodynamics Heat Transfer Environmental Mass Transfer Kinetics Plant Design Law and Ethics

The book starts with a math review to get you up to speed with algebra, trigonometry, geometry, calculus, and statistical analysis. Many solved example problems reinforce the concepts covered. Whatever you need to review, chances are excellent you'll find it here. Hundreds of tables, charts, and figures make this an all-in-one resource for the exam. The cross-referenced index guarantees that during the exam you'll find information quickly and easily. Having the Chemical Engineering Reference Manual with you in the exam cuts down considerably on the number of other specialized resources you'll need.

## Book Information

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## Customer Reviews

Overall, a very good reference for the Chemical PE Exam. This book will by far be your main reference on the exam and collects ~75% of the information you will need on the exam. I can say, definitively, you should buy this book for your PE Exam. What knocks the book down from being 5 stars are the somewhat alarming items that are completely left out. As others have stated, the author is an ME so he has left out some huge items that pertain particularly to ChE. Probably the most unforgivable is the lack of the pump and turbine work terms in the Bernoulli Equation. I mean... how is that not included when work of pumps and turbines are a major focus on the exam? As someone else mentioned, it does not include the Clausius Clapeyron Equation or the related Antoine Equation (although I imagine these are fairly unlikely to appear in this form on the exam). The most disappointing section (outside of the 5 pages of Kinetics) to me is the mass transfer. Don't get me wrong, it's a large portion of the book, but there are glaring issues. Mass transfer coefficients (film and overall) are almost completely neglected and show no equations on how to find them. These aren't difficult equations to find, but if you went into the exam not knowing they weren't in there, you could be lost on those questions. Another problem is the index needs work. Things like the C-C equation show up in the index, but when you get to the page you see it is only in there as a note and doesn't give you the actual equation. Meanwhile, other subjects do show up in the book but somehow don't appear in the index which is frankly unacceptable in a book that is hundreds and hundreds of pages long. These are just a few examples of what this book is lacking.

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