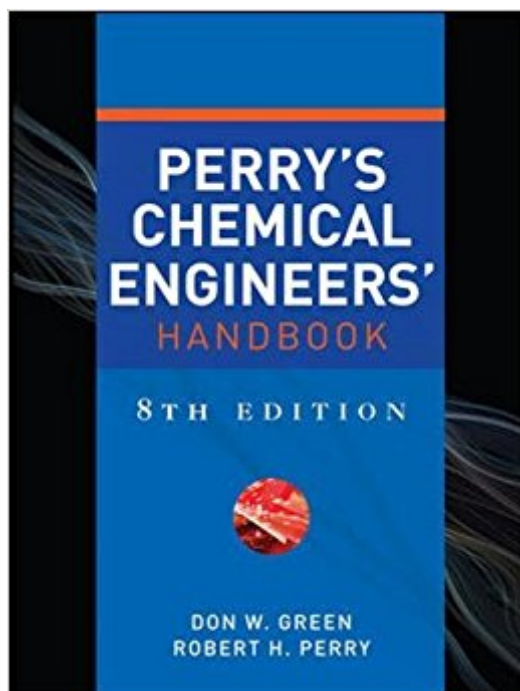




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# Perry's Chemical Engineers' Handbook, Eighth Edition



## Synopsis

Get Cutting-Edge Coverage of All Chemical Engineering Topics—from Fundamentals to the Latest Computer Applications. First published in 1934, Perry's Chemical Engineers' Handbook has equipped generations of engineers and chemists with an expert source of chemical engineering information and data. Now updated to reflect the latest technology and processes of the new millennium, the Eighth Edition of this classic guide provides unsurpassed coverage of every aspect of chemical engineering—from fundamental principles to chemical processes and equipment to new computer applications. Filled with over 700 detailed illustrations, the Eighth Edition of Perry's Chemical Engineering Handbook features:

- Comprehensive tables and charts for unit conversion
- A greatly expanded section on physical and chemical data
- New to this edition: the latest advances in distillation, liquid-liquid extraction, reactor modeling, biological processes, biochemical and membrane separation processes, and chemical plant safety practices with accident case histories

Inside This Updated Chemical Engineering Guide

- Conversion Factors and Mathematical Symbols
- Physical and Chemical Data
- Mathematics
- Thermodynamics
- Heat and Mass Transfer
- Fluid and Particle Dynamics
- Reaction Kinetics
- Process Control
- Process Economics
- Transport and Storage of Fluids
- Heat Transfer Equipment
- Psychrometry, Evaporative Cooling, and Solids Drying
- Distillation
- Gas Absorption and Gas-Liquid System Design
- Liquid-Liquid Extraction Operations and Equipment
- Adsorption and Ion Exchange
- Gas-Solid Operations and Equipment
- Liquid-Solid Operations and Equipment
- Solid-Solid Operations and Equipment
- Size Reduction and Size Enlargement
- Handling of Bulk Solids and Packaging of Solids and Liquids
- Alternative Separation Processes
- And Many Other Topics!

## Book Information

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## Customer Reviews

Robert Perry was chairman of the Department of Chemical Engineering at the University of Oklahoma. Donald W. Green is chair and the Deanne E. Ackers distinguished professor of chemical and petroleum engineering at the University of Kansas.

Great reference book, I've been using for a few classes in ChE. Goes right next to my other bible, the CRC Handbook. I guess I was only surprised at how much of a monster this book is, can't exactly carry it to class. It's like 7lbs and 4 inches thick.

Perry's has improved since the 6th edition of the mid-80's. The eighth edition does what it is supposed to do: provide a broad coverage of our sprawling profession. I like it that it provides comparison tables for equipment allowing an engineer to identify which unit operation works best for a given material or operating conditions. Also, the superior graphics have returned. There has been some re-shuffling of sections and the number of pages have grown substantially to cover such new topics as security and inherently safe design in Process Safety and solids handling. These topics were ignored in previous editions. The economics section has been expunged from the eighth; this is sad since so many of my peers have forgotten the importance of this section to our profession. This version of Perry's has returned to my side shelf. The 6th serves as a stop in my basement bookshelf. The 4th remains on the main shelf. If this review was helpful, please add your vote.

Best reference book I've purchased. A lot of it is pretty specific but if you're looking to say... calculate the vapor pressure of a refrigerant then this is the book for you!

I saw a few other reviews that gave poor marks for the informative tables being reduced to very small ( and unreadable ) images, but purchased this edition anyway. That was a big mistake. The print edition is comparable in price and infinitely more useful. I had seen PDFs floating around and

assumed that the Kindle edition would be of comparable quality, but legal. IT IS NOT. This edition also seems to lack matching page references to the print edition, which makes it worth even less as it cannot be as efficiently used to follow references from other texts. DO NOT BUY. The tables that you are buying this access are not usable.

It's a big book and is a gift for a graduate and came highly recommended.

My granddaughter is just thrilled with this gift as she is going to become a chemical engineer and said having all of this basic information together in one volume would be extremely helpful to her.

biggest. book. ever.

What other ChemE reference book is there? Use this on a regular basis at work and was a great resource when taking the PE exam. Get your company or school to pay for it!

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