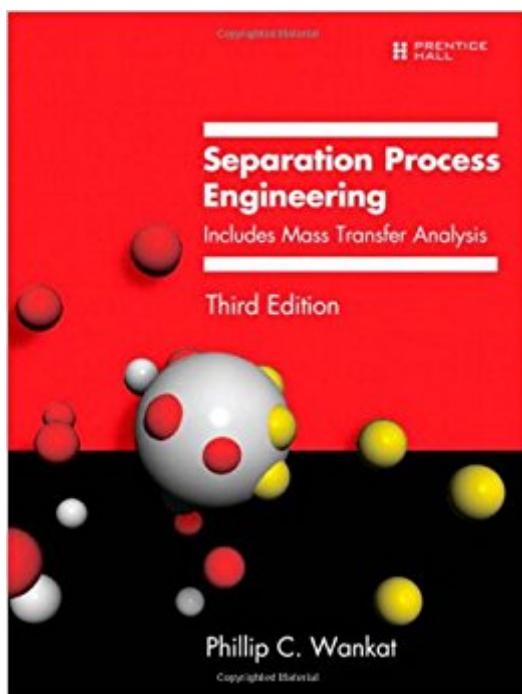


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# Separation Process Engineering: Includes Mass Transfer Analysis (3rd Edition)



## Synopsis

The Definitive, Fully Updated Guide to Separation Process Engineering

Now with a Thorough Introduction to Mass Transfer Analysis

Separation Process Engineering, Third Edition, is the most comprehensive, accessible guide available on modern separation processes and the fundamentals of mass transfer. Phillip C. Wankat teaches each key concept through detailed, realistic examples using real data—including up-to-date simulation practice and new spreadsheet-based exercises.

Wankat thoroughly covers each of today's leading approaches, including flash, column, and batch distillation; exact calculations and shortcut methods for multicomponent distillation; staged and packed column design; absorption; stripping; and more. In this edition, he also presents the latest design methods for liquid-liquid extraction. This edition contains the most detailed coverage available of membrane separations and of sorption separations (adsorption, chromatography, and ion exchange). Updated with new techniques and references throughout, Separation Process Engineering, Third Edition, also contains more than 300 new homework problems, each tested in the author's Purdue University classes.

Coverage includes Modular, up-to-date process simulation examples and homework problems, based on Aspen Plus and easily adaptable to any simulator. Extensive new coverage of mass transfer and diffusion, including both Fickian and Maxwell-Stefan approaches. Detailed discussions of liquid-liquid extraction, including McCabe-Thiele, triangle and computer simulation analyses; mixer-settler design; Karr columns; and related mass transfer analyses. Thorough introductions to adsorption, chromatography, and ion exchange—designed to prepare students for advanced work in these areas. Complete coverage of membrane separations, including gas permeation, reverse osmosis, ultrafiltration, pervaporation, and key applications. A full chapter on economics and energy conservation in distillation. Excel spreadsheets offering additional practice with problems in distillation, diffusion, mass transfer, and membrane separation.

## Book Information

Hardcover: 992 pages

Publisher: Prentice Hall; 3 edition (August 10, 2011)

Language: English

ISBN-10: 0131382276

ISBN-13: 978-0131382275

Product Dimensions: 7.3 x 1.4 x 9.2 inches

Shipping Weight: 3 pounds (View shipping rates and policies)

Average Customer Review: 4.1 out of 5 stars 18 customer reviews

Best Sellers Rank: #125,074 in Books (See Top 100 in Books) #72 in Books > Textbooks > Engineering > Chemical Engineering #121 in Books > Engineering & Transportation > Engineering > Chemical #1045 in Books > Science & Math > Chemistry

## Customer Reviews

Phillip C. Wankat is Clifton L. Lovell Distinguished Professor of Chemical Engineering and director of undergraduate degree programs at Purdue University's School of Engineering Education. His current research interests include adsorption, large-scale chromatography, simulated moving bed systems, and distillation, as well as improvements in engineering education. He received the 2007 Distinguished Education Alumni Award of Distinction from Purdue's College of Education, and the 2005 Shreve Prize in Chemical Engineering. With K. S. Knaebel, he contributed the Mass Transfer section to Perry's Handbook of Chemical Engineering, Eighth Edition (McGraw-Hill, 2008).

For a seps book, this wasn't bad at all. I'd recommend it. The whole book is in black and white with no pretty colorful pictures but its an engineering textbook so that's kind of how it is.

### Good Explanation

I simply ordered this book as a gift for my sister, who is in a mass transfer course for her chemical engineering program. It was a required book, and seems to do the trick, as it has been used since the first edition in that class. The book contains homework problems (which aren't used in the course, but my sister has done to solidify her understanding of the material) and, while being highly technical, explains concepts adequately. It's especially useful if required for your coursework. was definitely the cheapest place that I found it (at least compared to the school bookstore and online websites).

The methods/theories discussed here are important to modern clinical trials; especially when the tailored medicine is concerned. It can be a good reference for persons working on this area -- theory and application.

This books pretty good as far as ChemE text books go. There was enough theory backed by

actually showing you examples on how to do the math. Of course it probably won't hurt if you go look else where for clarification while taking your Mass Transfer class. I can't give it higher than three-stars however, when taking my unit operations lab when I went back to review the material from this book I found it difficult to accurately apply the techniques to separation processes which are not set up in the same manner as the examples within the book. This all may not matter since you'll be buying this for your mass transfer class one way or the other.

One of the more Valuable and easy to understand chemical engineering textbooks. I'm definitely going to hold on to this one.

A bit old school, some formulas are not written well, but content is good. Recommended as a support book for the course together with another book.

This book was everything I needed for my separations class. So many other people ordered the wrong book by mistake and this one was cheaper than in local bookstores!

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