

The background of the book cover features a 3D molecular model. A large central molecule consists of a white sphere with two red spheres and two yellow spheres attached. Surrounding this are several smaller spheres in white, yellow, and red. The top half of the cover is black, and the bottom half is red.

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FOURTH EDITION

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Chemical engineer Khoury explains the performance prediction of multistage separation processes for interactions between vapor and liquids. These processes are at the heart of the petroleum, petrochemical and chemical industries. Although mathematical models are presented in some detail, special attention is paid to the practical interpretation of the models. Industrial heuristics about what ranges of operating variables will work are also included. Annotation copyrighted by Book News Inc. Portland, OR.

Separation Processes Cary Judson King, 1980 Solutions Manual: Introduction to Analysis and Design of Equilibrium Staged Separation Processes Rajinder Pal, 2020-03-31

This Solutions Manual gives complete solutions of all the practice problems given at the end of each chapter, total of 16 chapters of the text **INTRODUCTION TO ANALYSIS AND DESIGN OF EQUILIBRIUM STAGED SEPARATION PROCESSES**. For the convenience of the readers, the practice problems given in the text have been restated before providing the solution.

Solutions Manual to Accompany Separation Processes, 1980 **Separation Process Engineering** Phillip Wankat, 2011

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 of membrane separations and of sorption separations, adsorption, chromatography and ion exchange, available. 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. This new edition 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. Author bio: 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

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