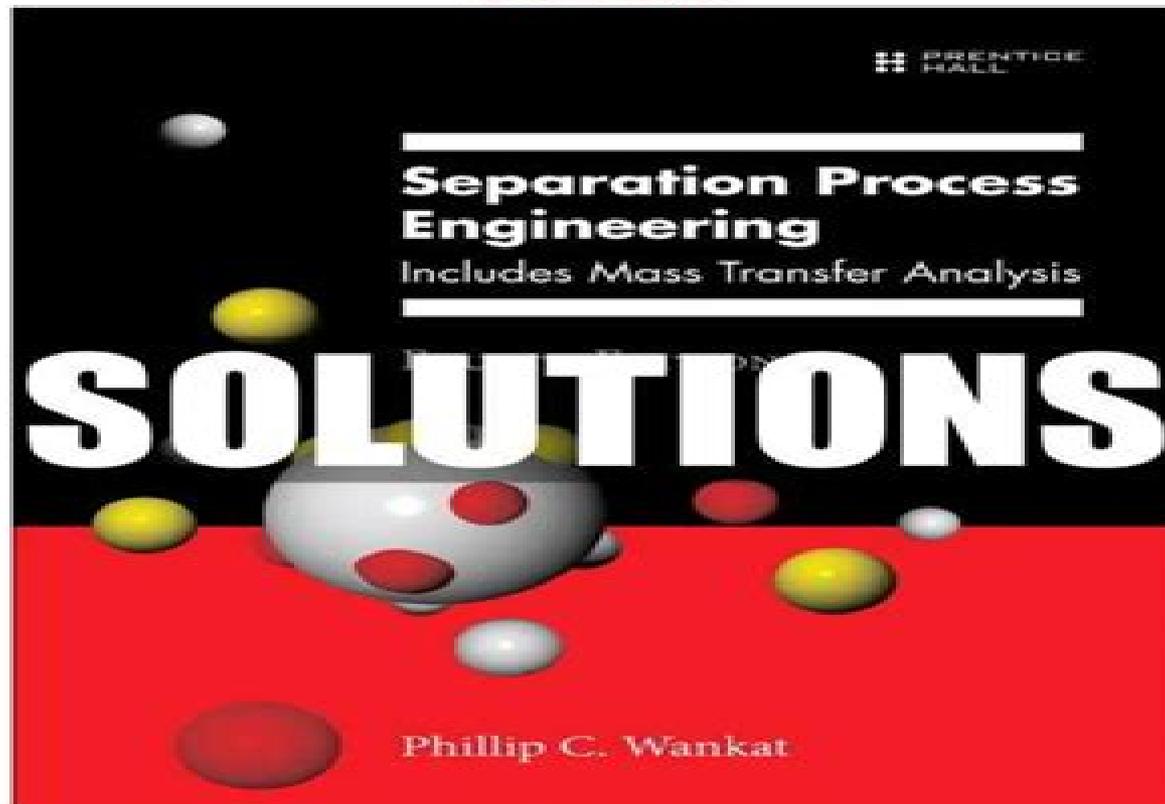


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Handbook of Separation Process Technology Ronald W. Rousseau,1987-05-13 Surveys the selection design and operation of most of the industrially important separation processes Discusses the underlying principles on which the processes are based and provides illustrative examples of the use of the processes in a modern context Features thorough treatment of newer separation processes based on membranes adsorption chromatography ion exchange and chemical complexation Includes a review of historically important separation processes such as distillation absorption extraction leaching and crystallization and considers these techniques in light of recent developments affecting them

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Solutions Manual to Accompany Separation Processes, 1980 **Separation Process Engineering: Pearson New International Edition** Phillip C. Wankat, 2013-09-05 Separation Process Engineering Third Edition is the most comprehensive accessible text 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 *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 **Large-scale Adsorption and Chromatography** Phillip C. Wankat, 1986 *Separation Process Engineering* Phillip C. Wankat, 2006-08-11 The Comprehensive Introduction to Standard and Advanced Separation for Every Chemical Engineer Separation Process Engineering Second Edition helps readers thoroughly master both standard equilibrium staged separations and the latest new processes The author explains key separation process with exceptional clarity realistic examples and end of chapter simulation exercises using Aspen Plus The book starts by reviewing core concepts such as equilibrium and unit operations then introduces a step by step process for solving separation problems Next it introduces each leading processes including advanced processes such as membrane separation adsorption and chromatography For each process the author presents essential principles techniques and equations as well as detailed examples Separation Process Engineering is the new thoroughly updated edition of the author s previous book Equilibrium Staged Separations Enhancements include improved organization extensive new coverage and more than 75% new homework problems all tested in the author s Purdue University classes Coverage includes Detailed problems with real data organized in a common format for easier understanding Modular simulation exercises that support courses taught with simulators without creating confusion in courses that do not use them Extensive new coverage of membrane separations including gas permeation reverse osmosis ultrafiltration pervaporation and key applications A detailed introduction to adsorption chromatography and ion exchange everything students need to understand advanced work in these areas Discussions of standard equilibrium stage processes including flash distillation continuous column distillation batch distillation absorption stripping and extraction *Computer Methods for Solving Dynamic Separation Problems* Charles Donald Holland, Athanasios I. Liapis, 1983 *Equilibrium Staged Separations* Phillip C. Wankat, 1988 This volume provides concise complete single volume coverage of the full spectrum of techniques for chemical separations and focuses on a modern approach that integrates classical solutions with computer methods Provides complete coverage of distillation absorption and extraction methods and explains stage by stage techniques matrix methods and short cut methods MARKETS For undergraduate Chemical Engineering students **Separation Process Engineering** Phillip Wankat, 2011

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Rate-controlled Separations Phillip C. Wankat, 1994

Separations have always been very important in chemical engineering This importance has escalated with the emergence of new industries in biotechnology and high performance materials Separations will continue to remain important in bulk chemical manufacturing petroleum processing and the other standard areas of interest in chemical engineering This book covers separation processes which require a rate analysis for complete understanding This includes most of the newer separation methods Problem solving is emphasized throughout A level of mathematical analysis is required and an understanding of mass transfer is assumed The book starts with crystallization which is essentially equilibrium based The author then considers sorption separations which can be but seldom are operated as equilibrium staged systems and membrane separations which are inherently rate processes Finally there is a progress report on selection and sequencing of separations The book is directed at senior undergraduate and graduate students of chemical engineering

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