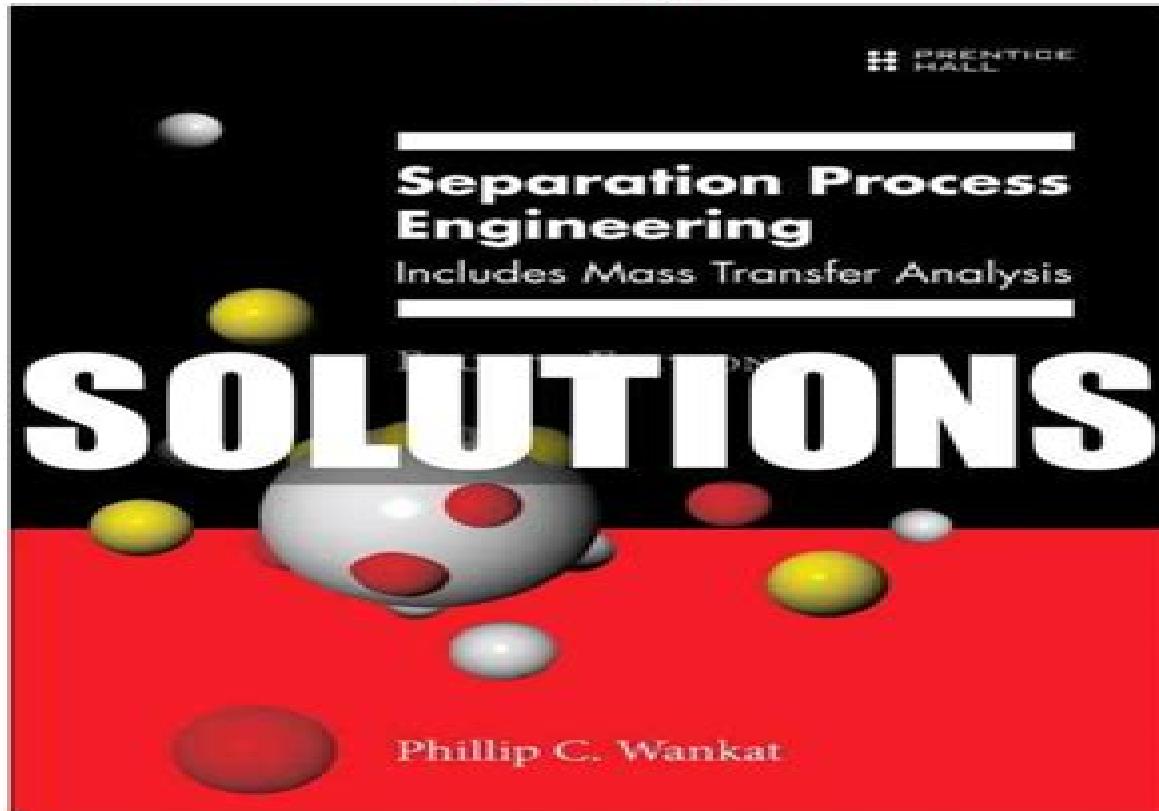


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clarify realistic examples and end of chapter simulation exercises using Aspen Plus. The book starts by reviewing core concepts such as equilibrium and unit operations then introduces a step by step process for solving separation problems. Next it 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.

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.

Chemical Engineering Education, 1997 **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.

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[Advances in Intelligent Data Analysis and Applications](#) Jeng-Shyang Pan, Valentina Emilia Balas, Chien-Ming Chen, 2021-11-25 This book constitutes the Proceeding of the Sixth International Conference on Intelligent Data Analysis and Applications October 15 18 2019 Arad Romania This edition is technically co sponsored by Aurel Vlaicu University of Arad Romania Southwest Jiaotong University Fujian University of Technology Chang'an University Shandong University of Science and Technology Fujian Provincial Key Lab of Big Data Mining and Applications and National Demonstration Center for Experimental Electronic Information and Electrical Technology Education Fujian University of Technology China Romanian Academy and General Association of Engineers in Romania Arad Section The book covers a range of topics Machine Learning Intelligent Control Pattern Recognition Computational Intelligence Signal Analysis Modeling and Visualization Multimedia Sensing and Sensory Systems Signal control Imaging and Processing Information System Security Cryptography and Cryptanalysis Databases and Data Mining Information Hiding Cloud Computing Information Retrieval and Integration Robotics Control Agents Command Control Communication and Computers C4 Swarming Technology Sensor Technology Smart cities The book offers a timely board snapshot of new development including trends and challenges that are yielding recent research directions in different areas of intelligent data analysis and applications The book provides useful

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