

Separation Process Engineering

Includes Mass Transfer Analysis

FOURTH EDITION



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B Lingard

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Separation Process Engineering Phillip C. Wankat, 2022-10-24 The Definitive Learner Friendly Guide to Chemical Engineering Separations Extensively Updated Including a New Chapter on Melt Crystallization Efficient separation processes are crucial to addressing many societal problems from developing new medicines to improving energy efficiency and reducing emissions Separation Process Engineering Fifth Edition is the most comprehensive accessible guide to modern separation processes and the fundamentals of mass transfer In this completely updated edition Phillip C Wankat teaches each key concept through detailed realistic examples using actual data with up to date simulation practice spreadsheet based exercises and references Wankat thoroughly covers each separation process including flash column and batch distillation exact calculations and shortcut methods for multicomponent distillation staged and packed column design absorption stripping and more His extensive discussions of mass transfer and diffusion enable faculty to teach separations and mass transfer in a single course And detailed material on liquid liquid extraction adsorption chromatography and ion exchange prepares students for advanced work New and updated content includes melt crystallization steam distillation residue curve analysis batch washing the Shanks system for percolation leaching eutectic systems forward osmosis microfiltration and hybrid separations A full chapter discusses economics and energy conservation including updated equipment costs Over 300 new and updated homework problems are presented all extensively tested in undergraduate courses at Purdue University New chapter on melt crystallization solid liquid phase equilibrium suspension static and falling film layer approaches and 34 questions and problems New binary VLE equations and updated content on simultaneous solutions New coverage of safety and fire hazards New material on steam distillation simple multi component batch distillation and residue curve analysis Expanded discussion of tray efficiencies packed column design and energy reduction in distillation New coverage of two hybrid extraction with distillation and the Kremser equation in fractional extraction Added sections on deicing with eutectic systems eutectic freeze concentration and scale up New sections on forward osmosis and microfiltration Expanded advanced content on adsorption and ion exchange including updated instructions for eight detailed Aspen Chromatography labs Discussion of membrane separations including gas permeation reverse osmosis ultrafiltration pervaporation and applications Thirteen up to date Aspen Plus process simulation labs adaptable to any simulator This guide reflects an up to date understanding of how modern students learn designed organized and written to be exceptionally clear and easy to use It presents detailed examples in a clear standard format using real data to solve actual engineering problems preparing students for their future careers **Teaching Engineering, Second Edition** Phillip C. Wankat, Frank S. Oreovicz, 2015-01-15 The majority of professors have never had a formal course in education and the most common method for learning how to teach is on the job training This represents a challenge for disciplines with ever more complex subject matter and a lost opportunity when new active learning approaches to education are yielding dramatic improvements in

student learning and retention This book aims to cover all aspects of teaching engineering and other technical subjects It presents both practical matters and educational theories in a format useful for both new and experienced teachers It is organized to start with specific practical teaching applications and then leads to psychological and educational theories The practical orientation section explains how to develop objectives and then use them to enhance student learning and the theoretical orientation section discusses the theoretical basis for learning teaching and its impact on students Written mainly for PhD students and professors in all areas of engineering the book may be used as a text for graduate level classes and professional workshops or by professionals who wish to read it on their own Although the focus is engineering education most of this book will be useful to teachers in other disciplines Teaching is a complex human activity so it is impossible to develop a formula that guarantees it will be excellent However the methods in this book will help all professors become good teachers while spending less time preparing for the classroom This is a new edition of the well received volume published by McGraw Hill in 1993 It includes an entirely revised section on the Accreditation Board for Engineering and Technology ABET and new sections on the characteristics of great teachers different active learning methods the application of technology in the classroom from clickers to intelligent tutorial systems and how people learn **Separation Processes** C. Judson King, 2013-12-18 Originally published New York McGraw Hill 1971 2nd ed Includes a new introduction Desalination .1991

Mathematical Modeling and Scale-up of Liquid Chromatography Tingyue Gu,2012-12-06 Liquid chromatography has proved to be one of the most important tools for separations Rapid development in biotechnology has increased the demand for chromatography in analytical preparative and large scale applications. The understanding of the dynamics of chromatography is imperative for the scale up This book is a systematic treatment of the general rate models for various forms of liquid chromatography including adsorption size exclusion affinity reversed phase hydrophobic interaction and radial flow chromatography Thermodynamic and mass transfer effects in liquid chromatography are discussed Applications of computer programs for the rate models are described and the procedures for the scale up of preparative and large scale liquid chromatography using the general rate models are given *Chemical Engineering Education*, 1999 **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), **Applied Mechanics Reviews**, 1972

Annual Conference Proceedings American Society for Engineering Education. Conference,1995 The British National Bibliography Arthur James Wells,1992 Subject Guide to Books in Print,2001 Proceedings American Society for Engineering Education. Conference,1995 Proceedings American Society for Engineering Education,1995 Books in Print,1977 Scientific and Technical Books and Serials in Print,1989 Chromatography George T. Tsao,1993

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