

Separation Process Engineering 2nd Edition Solutions

Manual Wankat

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reviewing core concepts such as equilibrium and unit operations this title introduces a step by step process for solving separation problems it looks at each leading processes including advanced processes such as membrane separation adsorption and chromatography for each process it presents principles techniques equations and examples

originally published new york mcgraw hill 1971 2nd ed includes a new introduction

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

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

provides worked out solutions to all problems and exercises in the text most appropriately used as an instructor s solutions manual but available for sale to students at the instructor s discretion

free with main text this book is intended for people that have bought the main edition by krantz techniques of problem solving with assistance from krantz steven g

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

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