

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

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