Table of Contents

- About the Authors.Preface to the Second Edition
- Nomenclature
- Dimensions and Units
- Part 1 Fundamental Concepts
- Chapter 1 Separation Processes
- Chapter 2 Thermodynamics of Separation Operations
- Chapter 3 Mass Transfer and Diffusion
- Chapter 4 Single Equilibrium Stages and Flash Calculations
- Chapter 5 Cascades and Hybrid Systems
- Part 2 Separations by Phase Addition or Creation
- Chapter 6 Absorption and Stripping of Dilute Mixtures
- Chapter 7 Distillation of Binary Mixtures
- Chapter 8 Liquid-Liquid Extraction with Ternary Systems
- Chapter 9 Approximate Methods for Multicomponent, Multistage Separations
- Chapter 10 Equilibrium-Based Methods for Multicomponent Absorption, Stripping, Distillation, and Extraction
- Chapter 11 Enhanced Distillation and Supercritical Extraction
- Chapter 12 Rate-Based Models for Distillation
- Chapter 13 Batch Distillation
- Part 3 Separations by Barriers and Solid Agents
- Chapter 14 Membrane Separations
- Chapter 15 Adsorption, Ion Exchange, and Chromatography
- Part 4 Separations that Involve a Solid Phase
- Chapter 16 Leaching and Washing
- Chapter 17 Crystallization, Desublimation, and Evaporation
- Chapter 18 Drying of Solids
- Index