

## CONTENTS

1. Manner of Sorption and Form of the Sorption Isotherm in Gas, Liquid, and Ion-Exchange Chromatography	1
2. Characterization of Bonded High-Performance Liquid Chromatographic Stationary Phases	34
3. Column-Packing Structure and Performance	56
4. Differences in Selectivity of Reversed-Phase Columns for High-Performance Liquid Chromatography	68
5. Selectivity of Poly (styrene-divinylbenzene) Columns	83
6. Chromatographic Separation of Enantiomers on Rationally Designed Chiral Stationary Phases	101
7. Nonoptical Noise Sources in High-Performance Liquid Chromatographic Optical Absorbance Detectors	107
8. Applications of Laser Fluorimetry to Microcolumn Liquid Chromatography	120
9. Recent Advances in New and Potentially Novel Detectors in High-Performance Liquid Chromatography and Flow Injection Analysis	137
10. Microcomputer-Assisted Retention Prediction in Reversed-phase Liquid Chromatography	167
11. Calculation of Retention for Complex Gradient Elution High-Performance Liquid Chromatographic Experiments: A Universal Approach	188
12. Manipulation of Stationary-Phase Acid-Base Properties by a Surface-Buffering Effect: Boronic Acid-Saccharide Complexation	210
13. Cyclodextrin Mobile-Phase and Stationary-Phase Liquid Chromatography	226
14. High-Resolution, Two-Dimensional, Gel Electrophoresis of Proteins: Basic Concepts and Recent Advances	244
15. Capillary Supercritical Fluid Chromatography and Supercritical Fluid Chromatography-Mass Spectrometry	260