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Nota di contenuto	HPLC Made to Measure; Foreword; Preface; Contents; List of Contributors; Structure of the Book; 1 Fundamentals of Optimization; 1.1 Principles of the Optimization of HPLC Illustrated by RP-Chromatography; 1.1.1 Before the First Steps of Optimization; 1.1.2 What Exactly Do We Mean By "Optimization"?; 1.1.3 Improvement of Resolution ("Separate Better"); 1.1.3.1 Principal Possibilities for Improving Resolution; 1.1.3.2 What has the Greatest Effect on Resolution?; 1.1.3.3 Which Sequence of Steps is Most Logical When Attempting an Optimization?; 1.1.3.4 How to Change k, , and N 1.1.3.4.1 Isocratic Mode1.1.3.4.2 Gradient Mode; 1.1.3.4.3 Acetonitrile or Methanol?; 1.1.4 Testing of the Peak Homogeneity; 1.1.5 Unknown Samples: "How Can I Start?"; Strategies and Concepts; 1.1.5.1 The "Two Days Method"; 1.1.5.2 "The 5-Step Model"; 1.1.6 Shortening of the Run Time ("Faster Separation"); 1.1.7 Improvement of the Sensitivity ("To

Sommario/riassunto

The only topical HPLC book to focus on optimization, this volume addresses the needs of HPLC users who wish to constantly improve their methods, in particular in terms of throughput, accuracy and cost-effectiveness. This handbook features contributions from such bestselling authors as John W. Dolan, Michael McBrien, Veronika R. Meyer, Uwe D. Neue, Lloyd R. Snyder, and Klaus K. Unger, as well as from scientists working for major companies, including Agilent, AstraZeneca, Merck, Schering, Tosoh Biosep, VWR, and Waters. It covers essential aspects of optimization in general, optimization in