

Selectivity and Detectability Optimizations in HPLC (Chemical Analysis: A Series of Monographs on Analytical Chemistry and Its Applications)

By Satinder Ahuja

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High Performance Liquid Chromatography Edited by Phyllis Brown and Richard Hartwick This contributed volume is designed to consolidate the basic theories of chromatography along with the more exciting developments in the field. This monograph addresses some questions that concern researchers in separation science, including: what is the current state of the art in liquid chromatography; has the development of liquid chromatography plateaued; if so, what new methods will take its place or complement it; and if not, where will the new frontiers be and what direction will liquid chromatography take? 1989 (0 471-84506-X) 688 pp. Quantitative Structure-Chromatographic Retention Relationships R. Kaliszan Written by a pioneer in the field, this book extends and updates research on quantitative structure retention relationships by consolidating and critically reviewing the extensive literature on the subject, while also providing the basic theoretical and practical information required in all investigations involving chromatography, analytical chemistry, biochemistry, and pharmaceutical research. Among the topics covered are the nature of chromatographic interactions, molecular interpretation of distribution processes in chromatography, topological indices as retention descriptors, and multiparameter structure-chromatographic retention relationships. 1987 (0 471-85983-4) 303 pp. Detectors for Liquid Chromatography Edited by Edward S. Yeung With its singular coverage of this fast-growing field, Detectors for Liquid Chromatography presents the state of the art in this subject area. It offers a comprehensive examination of the basic principles behind the detector response, instrumentation, and selected applications for comparison and evaluation of potential. Specifically, topics given in-depth coverage include polarimetric, indirect absorbance, refractive index detectors, absorption detectors for HPLC, FTIR and fluorometric detection, detection based on electrical and electromechanical measurements, and mass spectroscopy as an on-line detector for HPLC. 1986 (0 471-82169-1) 366 pp.

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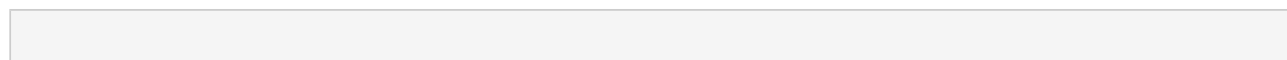
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Selectivity and Detectability Optimizations in HPLC (Chemical Analysis: A Series of Monographs on Analytical Chemistry and Its Applications) By Satinder Ahuja Bibliography

- Sales Rank: #5899047 in Books
- Published on: 1989-05
- Ingredients: Example Ingredients
- Original language: English
- Number of items: 1
- Dimensions: 9.41" h x 1.50" w x 6.22" l, 2.41 pounds
- Binding: Misc. Supplies
- 604 pages



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Editorial Review

From the Publisher

Here is the first full treatment of selectivity and detectability optimizations in chromatography. After describing the scope of selectivity and detectability optimizations, chapters explain the physicochemical basis of retention and survey illuminating studies on separation mechanisms. The book presents conventional approaches used to optimize mobile-phase selection and optimization and describes optimization of separations in adsorption/normal-phase, reversed-phase, ion-exchange, and ion-pairing chromatography. Closing chapters discuss applications pertaining to macromolecules and isomers, computerized approaches to selectivity, and selective detectors.

From the Inside Flap

The two primary goals of chromatographers are selectivity and detectability optimizations. However, no text currently exists that deals completely with this subject area. Chromatographic theory does not offer enough support either. Separation on an HPLC column is a complex process. The functional groups of chemical compounds, isomeric structures, or high molecular weight can also influence separations. As part of the continuing series in Chemical Analysis, *Selectivity and Detectability Optimizations in HPLC* provides a basic understanding of these processes and builds on the data available from conventional approaches to optimization. One major aspect covered is the new opportunities offered by computers to achieve the desired optimizations. The scope of selectivity and detectability optimizations is described in Chapter 1. The next two chapters treat the physicochemical basis of retention and the studies performed to improve our understanding of separation mechanisms. Chapter 4 provides background information by discussing the conventional approaches to mobile-phase selection and optimization. Chapters 5–8 examine approaches used to optimize separation by adsorption/normal-phase, reversedphase, ion-exchange, and ion-impairing chromatography. Applications in select areas such as macromolecules—especially in the field of biotechnology—and isomers (including chiral separations) are covered in Chapters 9 and 10. Computerized approaches to selectivity in Chapter 11 explore unattended optimizations that could further improve our knowledge in this area. Chapters 12 and 13 treat selective detectors and approaches to optimize detectability. *Selectivity and Detectability Optimizations in HPLC* will help analytical chemists working in the pharmaceutical, chemical, petroleum, and polymer fields, as well as FDA, USDA, EPA, and other governmental agencies involved in HPLC testing to reduce method development time. In addition, advanced undergraduate and graduate students will gain a better understanding of HPLC separation and detection.

From the Back Cover

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