



## **Hyphenated and Alternative Methods of Detection in Chromatography (Chromatographic Science Series)**

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# Hyphenated and Alternative Methods of Detection in Chromatography (Chromatographic Science Series)

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Widely employed for separating and detecting chemicals in solution, separation techniques are most often applied in tandem, subsequently referred to as hyphenated methods. **Hyphenated and Alternative Methods of Detection in Chromatography** details the development and application of mass spectral detection techniques coupled with gas phase and liquid phase chromatographies. With contributions from experts in a variety of fields, as evidenced by the range of topics, the book describes the advantages and disadvantages of various separation techniques and addresses methods for cutting-edge applications such as proteomics research.

Specifically, this book covers:

- The development of the LC-NMR and its application in chromatographic science, particularly in relation to the analysis of natural and environmental samples and in the study of reaction monitoring, biosynthetic analysis, and structural elucidation
- The application of LC-ICP in biological samples for the speciation of organoarsenic and organoselenium compounds; metal complexes in microorganisms, plants, and foods of plant origin; human body fluids and tissues; and in the detection of chemical warfare agents
- Electrochemical detection in liquid chromatography, system optimization, and applications in the analysis of flavonoids
- The use of chemiluminescence for microcolumn and capillary methods of separation
- The process of employing multidimensional separation methods as a means of identifying components in complex samples

A detailed reference for those starting out in the field, this book also suits those who are more experienced yet require assistance in new directions. It is an ideal reference for senior undergraduate and postgraduate students wishing to supplement their learning experience. Containing over 800 references, this book is an excellent source of information within the field of hyphenated methods of chromatographic analysis.

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