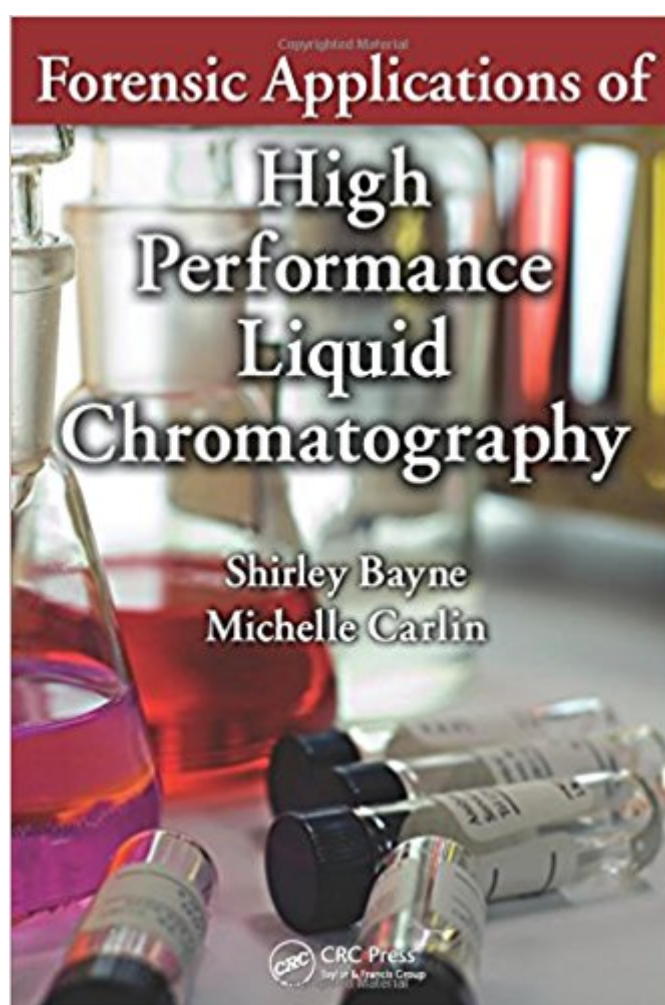


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Forensic Applications Of High Performance Liquid Chromatography (Analytical Concepts In Forensic Chemistry)



Synopsis

Chromatography has many roles in forensic science, ranging from toxicology to environmental analysis. In particular, high-performance liquid chromatography (HPLC) is a primary method of analysis in many types of laboratories. Maintaining a balance between practical solutions and the theoretical considerations involved in HPLC analysis, *Forensic Applications of High Performance Liquid Chromatography* uses real-life examples likely to be found within a forensic science laboratory to explain HPLC from a forensic perspective. Focusing chiefly on the reverse phase HPLC mode of separation, this volume examines:

- The history of HPLC and the theory behind the separation process
- The requirements for successful analysis and best practice tips
- The modes of separation and detection most appropriate for forensic science applications
- HPLC method development and evaluation
- The quality aspects of laboratory operation
- Troubleshooting HPLC systems and analyses
- Applications of HPLC within the field of forensic science

Designed as a textbook for university students studying analytical chemistry, applied chemistry, forensic chemistry, or other courses with an element of HPLC within the course curriculum, this volume is also an invaluable guide for those in the early stages of their forensic analysis careers. An instructor's manual with lecture slides, test bank, objectives, and exercises is available with qualifying course adoption.

Book Information

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Customer Reviews

I showed this book to many of my students and asked them to read it and they told me that they

could understand the concepts of HPLC properly for the first time from this book. Even a number of my own concepts were clarified a great deal. "This is the first book to the best of my knowledge specifically dealing with the forensic applications of HPLC, and a very good one at that. Highly recommended for all forensic scientists and chemists, especially those who are working in separation science." Anil Aggrawal writing in Anil Aggrawal's Internet Journal of Forensic Medicine and Toxicology" easy to read and lively enough to engage students and keep their interest." C. F. Poole, Wayne State University, in Chromatographia "The book chapters maintain a balance between theoretical considerations and examples and practical solutions. designed as a textbook for university students studying analytical chemistry, applied chemistry, forensic chemistry, or other courses with an element of HPLC within the course curriculum, this volume is an invaluable guide for those in the early stages of their forensic analysis careers." International Journal of Environmental Analytical Chemistry

Shirley Bayne is a senior lecturer and course leader in forensic science at Teesside University. Michelle Carlin is a junior lecturer at Northumbria University in forensic chemistry where she carries out research in analytical toxicology.

Fantastic book. The title is a little bit misleading, it is not forensic science it contains everything about LC from theory to components and includes brief introduction on sample preparation. Recommend it for anyone who would like to understand basic LC

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