



## Forensic Applications of High Performance Liquid Chromatography

By Shirley Bayne, Michelle Groves Carlin

Taylor Francis Inc, United States, 2010. Paperback. Book Condition: New. 234 x 155 mm. Language: English Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.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...

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