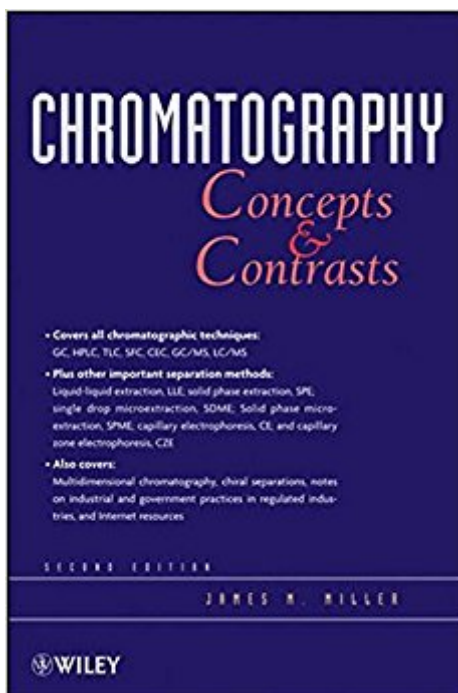




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Chromatography: Concepts And Contrasts



Synopsis

The first edition of *Chromatography: Concepts and Contrasts*, published in 1988, was one of the first books to discuss all the different types of chromatography under one cover. The second edition continues with these principles but has been updated to include new chapters on sampling and sample preparation, capillary electrophoresis and capillary electrochromatography (CEC), chromatography with mass spec detection, and industrial and governmental practices in regulated industries. Covers extraction, solid phase extraction (SPE), and solid phase microextraction (SPME), and introduces mass spectrometry. Updated with the latest techniques in chromatography. Discusses both liquid chromatography (LC) and gas chromatography (GC).

Book Information

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Customer Reviews

"Of course, I found a few mistakes, but not enough to criticize what is a useful, and, if not unique, at least a satisfying alternative approach to introducing a broad audience to the science, practice, and purpose of chromatography in a global context." (*Chromatographia*, August 2010) "a practical, hands-on approach" (*CHOICE*, July 2005) "an excellent introduction to all the chromatographic techniques for both the industrial practitioner and the student because of its unified treatment, its modern approach, and up-to-date references." (*Journal of the American Chemical Society*, June 29, 2005) "Professor Miller should be congratulated for the book...should be on the shelf of every practicing chromatographer...students taking separations science courses could also use it as their standard textbook." (*Chromatographia*, February 2005) --This text refers to the Hardcover edition.

Chromatography has become the most widely used technique for separation and analyses. Because a great deal of information is available on the three main types--gas chromatography (GC), liquid chromatography (LC), and thin layer chromatography (TLC)--they are usually treated separately despite their common theoretical base. This comprehensive work presents a unified study of chromatography which introduces the principles shared by each method while emphasizing the similarities and differences between the three types. The chapters covering these methods build on the introductory coverage of common principles, providing an effective overview of the subject for novices and allowing practitioners to more easily switch from one technique to another. In addition, this approach permits the use of one set of terms and symbols, making learning easier. Includes several practical examples the ways in which GC, LC, and TLC operate, as well as a section on special techniques such as chiral separations and derivatization. --This text refers to the Hardcover edition.

This is an excellent book for those new to the field of chromatography and for those who would like a 'general' review of the theory and concepts. The mathematical concepts are a little watered down (compared to the Giddings text), but this one offers a fantastic practical approach, including: GC and LC instrumentation, columns, brief-but-to-the-point chapters on method development, CZE and CEC, sample prep., and an excellent chapter on special applications. I am a graduate student in chemistry, and after drudging through the endless equations in Giddings' book, Miller's text was a breath of fresh air. It offers a much more practical and understandable approach for the use of the equations during a real chemical separation for a novice chromatographer (and I'm sure as a great reference for an expert too!). Overall, I highly recommend this book-- it gives life to theory of separation science.

I still use this book today after owning it for more than 2 years now. It was a really great buy.

The text is readable, but tends to be somewhat repetitive in parts. There seems to be some sections that could be covered more in depth, but for a general overview of chromatography, this books seems to be decent enough. In the graduate course I'm taking, this text book is supplemented with journal articles to fill in some of the missing depth. This structure seems to work well.

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