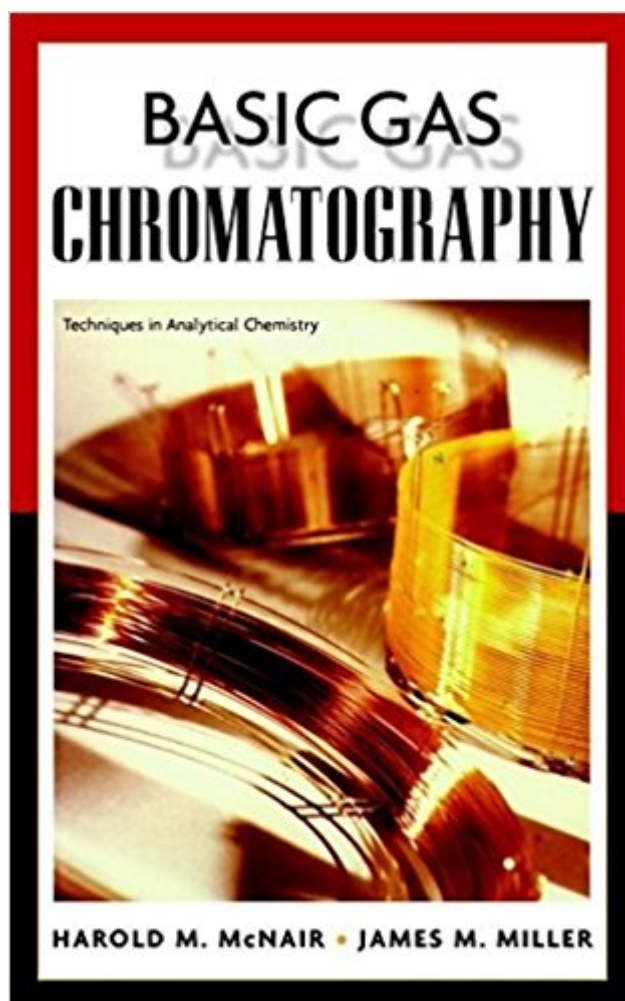




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Basic Gas Chromatography (Techniques In Analytical Chemistry)



Synopsis

Gas Chromatography (GC) is undoubtedly the most widely used technique for the separation and analysis of volatile compounds. Yet comprehensive guides to contemporary GC theory and practice are surprisingly hard to find. Basic Gas Chromatography fills this significant void in the GC literature. Written by two well-known practitioners and educators in GC, it offers thorough coverage of the basic principles and techniques of modern gas chromatography. Designed to serve as a primer/working reference for bench chemists and as a textbook for upper-level undergraduate and graduate students, it presents the fundamentals in a straightforward and logical fashion. Theoretical issues are explained without complicated equations and derivations and always in terms of how they relate to practical operating principles. Timely, comprehensive, and accessible, Basic Gas Chromatography:

- * Provides a balanced presentation of theory and practice
- * Includes both capillary column and packed column chromatography
- * Uses the new IUPAC terms throughout, cross-referenced to traditional terms and symbols
- * Offers a wealth of helpful hints, step-by-step guidelines, and trouble-shooting tips
- * Briefly covers GC-MS, headspace analysis, chiral analysis, solid phase microextraction, and other cutting-edge topics.

Book Information

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Customer Reviews

"The appendixes and troubleshooting guides included at the end of the chapters are very helpful. This book will be useful to students, researchers, and industrial scientists." (CHOICE, June 2010)

Basic Gas Chromatography Second Edition Harold m. McNair James M. Miller --This text refers to an out of print or unavailable edition of this title.

This is a great book for an analytical chemist wanting to learn about G.C. The first edition from McNair was easy to read and understand and this second edition follows in the same foot steps. McNair makes the basic concepts easy to understand and apply. The trouble shooting is also great for beginners.

A nicely written, easy to read, primer. It includes many tips and insights not covered in other textbooks. As in other books on the subject, there is a heavy bias towards the analysis of hydrocarbons, although reference is made to other materials such as essential oils. What I miss is an appendix with a couple of examples of analyses fully worked out, discussing the pros and cons of the decisions taken by the analyst regarding sample extraction and chromatographic analysis.

Awesome book.

An excellent primer on the subject. If you're thinking of bringing GC into your lab, or are just brushing up on the subject, this is the book for you. Some of the derivations focused on quantitative analysis are a bit pedantic and might not be applicable to the average user, but overall the book is a good balance between practice and theory.

A very good reference for those who just start to learn gas chromatography. The book was written in a format that make it easy to understand with more emphasis on the practical side rather than theoretical/mathematical treatment. After 40 years of intensive development, gas chromatography is still a very formidable technique.

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theoretical treatment for GC. After 40 years of intensive development, gas chromatography is still a very formidable technique.

This is a terrific overview of basic gas chromatography. For decades, Harold McNair was the BEST person teaching gas chromatography. Applied GC (gas chromatography) is as much an art as it is a science and has grown to be an invaluable tool for analytical work. Why not start with the best foundation of basics that one can get?

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