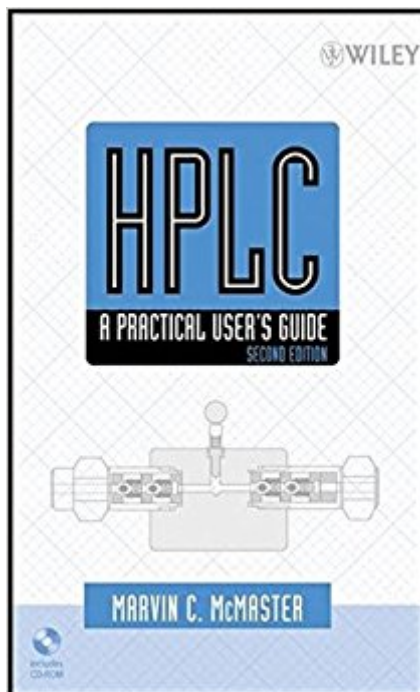


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# HPLC: A Practical User's Guide



## Synopsis

This Second Edition of the classic handbook details how to set up an HPLC system that capitalizes on the latest innovations. It covers new techniques in high-temperature, micro-flow, and ultra-fast chromatography, the linking of an HPLC to a mass spectrometer, and more. Complete with a CD-ROM and appendices, this guide has everything chromatographers need to know to confidently separate, identify, purify, and quantify compounds. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

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## Customer Reviews

Everything you need to set up an HPLC system that takes advantage of the latest innovations Here is the perfect handbook for both novice and experienced chromatographers. For novices, HPLC, Second Edition cuts through the technical detail, theory, and confusing variety of column types, enabling them to easily set up and maintain an HPLC system. For more experienced practitioners, the book explains how to fully exploit the most recent innovations and improvements in column technology. The latest information and techniques in high-temperature, micro-flow, and ultra-fast chromatography, as well as the linking of an HPLC to a mass spectrometer, represent just some of the new material featured in this Second Edition. Readers benefit from the author's twenty-five years of experience in HPLC, first as a user, then as a field sales and application support representative, and finally as a teacher and consultant. The book's wealth of tips and troubleshooting advice originate from the author's own laboratory and field work. HPLC's structure is carefully designed to give readers a solid foundation in the basics and then methodically build and

refine their skills: Part I, HPLC Primer, presents the essentials needed to get an HPLC system up and running Part II, HPLC Optimization, explains how to make the best use of the common columns and troubleshoot problems Part III, HPLC Utilization, focuses on real-world applications, including interfacing HPLC systems with computers and robotic workstations A CD-ROM with the author's PowerPoint® presentation, Practical Course in HPLC, is included with the book. Plus, new appendices offer answers to frequently asked questions, tables of solvents and volatile buffers, an updated glossary of terms, and laboratory experiments. In short, everything that you need to know to confidently separate, identify, purify, and quantify compounds is here.

MARVIN C. McMASTER, PhD, is a consultant as well as an Adjunct Professor of Chemistry at the University of Missouri-St. Louis. Dr. McMaster has served as a researcher and product developer for DuPont, Kraft Foods, and Ciba-Geigy. Among his other publications, Dr. McMaster is author of LC/MS: A Practical User's Guide and coauthor of GC/MS: A Practical User's Guide (both published by Wiley).

From working in multiple labs I know the ever-present fear of breaking expensive equipment, so I picked this up in an effort to learn about preventive maintenance for my HPLC systems. It's a pretty short book filled with practical and trustworthy advice. Its greatest strength is how it dispenses lots of practical knowledge that is otherwise learned only firsthand or direct from a mentor. However, I find it a bit lacking in details in many sections when it relates to theory (perhaps that's to be expected). Good for a true novice or to fill in gaps in your training, but anyone who likes in-depth information will quickly want to move from this text to something more comprehensive. It's also a bit out of date and tends to focus on LC-UV applications over LC-MS. Finally, it's coverage of some LC applications such as aqueous normal phase is really not up to par. Still, I would recommend it to anyone needing a strong introduction to HPLC applications and theory.

This book is a combination of things to HPLC: a general desk reference and an introductory guide to HPLC. Topically, the book is broad in scope that makes it perfect as an introduction to HPLC topics, as well as a starting point for projects. The topical split of the book is very even. It covers practical plumbing/hardware issues, chromatographic theory, applications (MS, preparative HPLC, etc...), and method development. The author's writing style and grasp of technical writing is perfect in my opinion. The writing is concise, descriptions are precise and detailed, and are accompanied by technical drawings and useful appendices (glossary, troubleshooting guide, etc...). The text is even

slightly humorous, but thankfully the author doesn't waste time with lots of 'hand-holding'. I recommend this as the perfect book for scientists who are new to HPLC, and for technicians with practical HPLC experience who want to broaden their knowledge. Overall the book is so broad that it probably won't be the only text on HPLC that you own, but it has enough depth to be useful as a starting point for inquiry.

Excellent starting guide to HPLC. Essential is any chemists library.

helpful

great product!!!

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