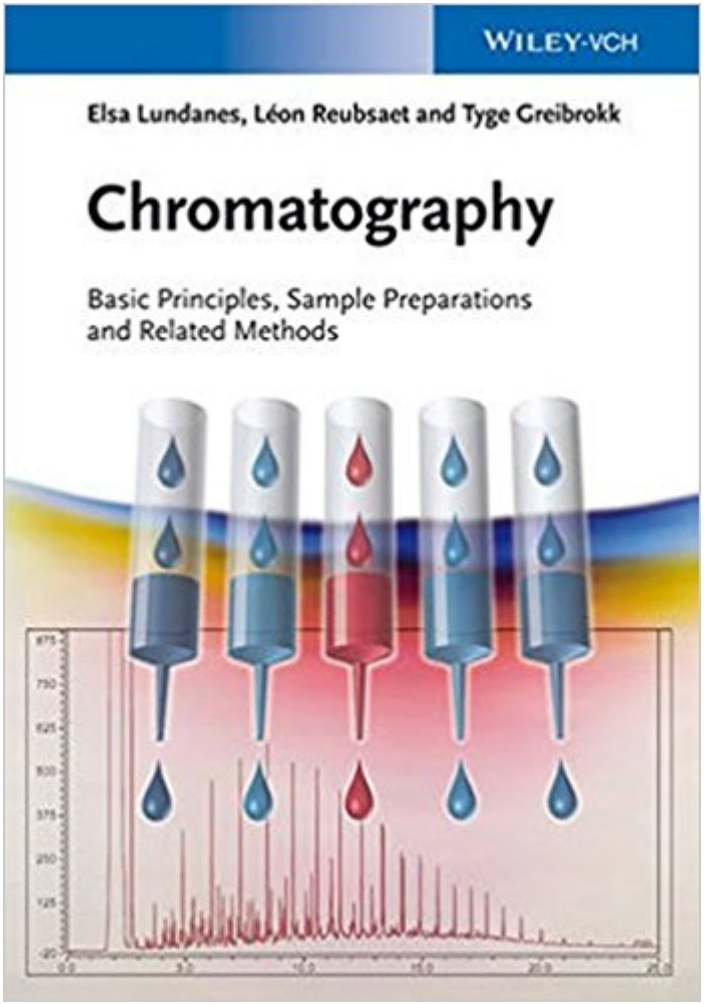
Chromatography: Basic Principles, Sample Preparations And Related Methods



Synopsis

Finally a book on chromatography which is easy to grasp for undergraduates and technicians; covers the area in sufficient depth while still being concise. The book includes all recent technology advances and has core textbook features further improving the learning experience.This book is the perfect introduction into a methodology which is the underlying principle of the vast majority of separation methods worldwide. Everyone working in a lab environment must be familiar with the basis of these technologies and Tyge Greibrokk, Elsa Lundanes and Leon Reubsaet succeed in delivering a text which is easy to read for undergraduates and laboratory technicians, and covers the area in sufficient depth while still being concise. The book includes all recent technology advances and has core textbook features further improving the learning experience. Importantly, the text does not only cover all major modern chromatography technology (thin layer, gas, high pressure liquid, and supercritical fluid chromatography) but also related methods, in particular electrophoretic technologies.

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Customer Reviews

This book is the perfect introduction into a methodology which is the underlying principle of the vast majority of separation methods worldwide â “ chromatography. Everyone working in a lab environment must be familiar with the basis of these technologies and the authors succeed in delivering a text which is easy to read for undergraduates and laboratory technicians, and covers the area in sufficient depth while still being concise. The book includes all recent technology advances and has core textbook features further improving the learning experience. Importantly, the

text does not only cover all major modern chromatography technologies (thin layer, gas, high pressure liquid, and supercritical fluid chromatography) but also related methods, in particular electrophoretic technologies.

Tyge Greibrokk has been professor of analytical chemistry since 1975 and also head of the Department of Chemistry at the University of Oslo. He retired as professor emeritus in 2012. Professor Greibrokk has (co)-authored more than 250 scientific papers and supervised more than 120 master students and 30 PhD students. He is elected member of the Norwegian Academy of Science and Letters, honorary member of the Norwegian Chemical Society, the recipient of several prizes and honors and has served as editor of Journal of Separation Science for many years. LÃ Â¿Â on Reubsaet took his academic degrees at the Free University Amsterdam and the Utrecht University. He has been professor in drug analysis since 2005 at the School of Pharmacy at the University of Oslo. He has (co)-authored approx. 70 scientific papers and supervised 40 master students and 8 PhD students. Since 2012 Professor Reubsaet is member of the editorial advisory board of Chromatographia. Elsa Lundanes obtained her academic degrees at the University of Oslo. She has been a professor of analytical chemistry since 1999. Professor Lundanes has (co)-authored more than 150 scientific papers, and supervised more than 100 master students and about 20 PhD students. She is elected member of the Norwegian Academy of Science and Letters.

Chromatography is an interesting collection of topics on the subject. It is generally well written and covers a broad set of topics that one would see in chromatographic analyses.Chapter 1 is considered an introduction to general concepts. If one has been exposed to chromatography before then this chapter is an excellent set of highlights to topics well worth knowing. It summarizes many of the key issues that one faces in separating using basic chromatographic techniques.Chapter 2 provides an excellent overview of gas chromatography. It provides an overview of most of the major design and analysis techniques and it is an excellent review again for the student who has had prior exposure.Chapter 3 is similarly an excellent set of highlights of key points in HPLC. There are good discussions on how they are designed and function and on their applications and limitations. The discussions on injection techniques are well done especially for those using this for laboratory work. It helps the users better understand what and why they are doing certain procedures. The presentation provides a wealth of extensions into most of the techniques that one would see in a modern application. In addition there are excellent discussions on limitations and issues to be concerned about.Chapter 4 is a similar chapter discussing the issue of TLC. The discussion on two

dimensional separations was especially useful and well developed.Chapter 5 extends the results to supercritical fluid chromatography.Chapter 6 is a discussion of Electrophoresis and similar techniques. Although this is often presented as a separate and stand-alone approach to separations the authors provide an excellent integration into a broad base of chromatographic applications.Chapter 7 is chromatography on a chip which is bringing the discussion up to current applications.Overall the book is exceptionally well done. The graphics are generally good and useful, and are in color. Some of them are a bit too small and make for confusing interpretation.The authors in the Preface state:The book aims to aid new users of chromatography, independent of background, to understanding the basicsÃ¢Â Â|Unfortunately, in my opinion, one should have had significant prior exposure to chromatography and have done some lab work in the area before using this book. The book is an excellent addition but not a primer. It does not pedagogically present the material in a logical manner. It does cover all of the major topics, basic and advanced. If one had been exposed before then this book helps bring everything into focus.I strongly recommend anyone doing chromatography to have a copy of this at hand. It gives great glimpses of insight. Yet it is not, in my opinion, a good introduction to the subject.

It has a good source of information, the basis, although, you need to go to another book (or reference) in order to complete the lack of details. This book is intended to give a broad overview to these analytical techniques, the chromatography and its derivates, but not to go deeper in the topic.

great product!!!

Assessment, Assurance, and Regulation of Medicinal Marijuana and Cannabinoid Preparations (Emerging Issues in Analytical Chemistry) The Art of Examining and Interpreting Histologic Preparations: A Laboratory Manual and Study Guide for Histology Innovative Teaching Strategies In Nursing And Related Health Professions (Bradshaw, Innovative Teaching Strategies in Nursing and Related Health Professions) Nutrition and Diagnosis-Related Care (Nutrition and Diagnosis-Related Care (Escott-Stump)) When The Grid Goes Down, Disaster Preparations and Survival Gear For Making Your Home Self-Reliant Kilimanjaro: A Complete Trekker's Guide: Ascent preparations, practicalities and trekking routes to the 'Roof of Africa' (Cicerone Mountain Walking) Laser Interaction and Related Plasma Phenomena (Laser Interaction & Related Plasma Phenomena) Basic Gas Chromatography Basic Gas Chromatography (Techniques in Analytical Chemistry) Decorative Cosmetics (A formulary of cosmetic preparations) (v. 1) Lexi-Comp's Pediatric Dosage Handbook: Including Neonatal Dosing, Drug Adminstration, & Extemporaneous Preparations