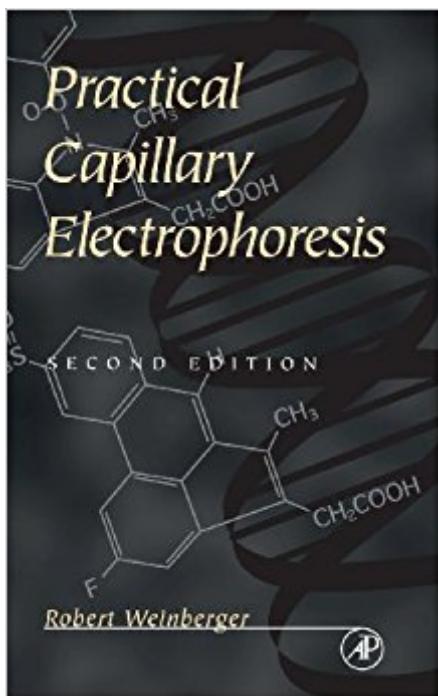


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Practical Capillary Electrophoresis, Second Edition



Synopsis

In the 1980s, capillary electrophoresis (CE) joined high-performance liquid chromatography (HPLC) as the most powerful separation technique available to analytical chemists and biochemists. Published research using CE grew from 48 papers in the year of commercial introduction (1988) to 1200 in 1997. While only a dozen major pharmaceutical and biotech companies have reduced CE to routine practice, the applications market is showing real or potential growth in key areas, particularly in the DNA marketplace for genomic mapping and forensic identification. For drug development involving small molecules (including chiral separations), one CE instrument can replace 10 liquid chromatographs in terms of speed of analysis. CE also uses aqueous rather than organic solvents and is thus environmentally friendlier than HPLC. The second edition of Practical Capillary Electrophoresis has been extensively reorganized and rewritten to reflect modern usage in the field, with an emphasis on commercially available apparatus and reagents. This authoritative and very comprehensible treatment builds on the author's extensive experience as an instructor of short courses for the American Chemical Society and for industry. Illustrated with detailed diagrams of electrophoretic phenomenaOffers step-by-step methods development schemesPresents techniques for developing quantitative, robust, and precise methodsIncludes an extensive troubleshooting guideUpdates and greatly expands on the first edition-more than 50% of the text is newWritten by an internationally recognized scientist who is an instructor for American Chemical Society short courses on HPCE

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Customer Reviews

"The Breadth and depth of this text are appropriate for the growing use of capillary electrophoresis. The book conveys general and fundamental concepts in a readable manner combined with an awareness of the need to sort out practical concerns for implementing capillary electrophoresis." --Lisa Holland, Kent State University, JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, Vol. 123 "...the book is formatted with easy to read text and logically organized information. Most chapters start with a detailed explanation of the CE process and then present many "real-world" examples. Although most of the information and examples are geared toward the industrial use of CE, academic laboratories and graduate students should find the text very helpful." --Jonathan Sweedler, Jason Page, and Zin Zhang, University of Illinois, CE TECHNOLOGIES

High-performance capillary electrophoresis (HPCE) has progressed from a research tool to the technique of choice for solving a variety of separation problems. Practical Capillary Electrophoresis, Second Edition, takes the "black art" out of HPCE by providing an integrated, intuitive, and phenomenological approach to the workings of electrophoresis, selection of the mode of electrophoresis, methods development, validation, and troubleshooting. Instructions in the text will yield the quickest means of producing optimal and highly reproducible separations regardless of which mode of HPCE is selected. Written for both new and experienced users of HPCE, this comprehensive and well-illustrated text is ideal for analytical chemists and biochemists working on applications from small molecules and chiral recognition to peptides, proteins, and DNA.

It contained the comprehensive review of capillary electrophoresis that I needed for my research. I wish that it had a little more about CE basics.

This a very useful text for students and experienced users alike. The book is the right level of information regarding instrumentation, basic concepts and provides useful information on various applications of the technology. Definitely a must buy for the novice and student -- likely a useful reference text for the experienced user.

This text finds the middle ground between the theory and practice of capillary electrophoresis. The text is ideal for students as well as industrial practitioners in the field

The confusing presentation, clumsy writing, and numerous factual errors make this book almost

unreadable.

There are half a dozen better books on the subject.

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