



High-Performance Capillary Electrophoresis: Theory, Techniques, and Applications (Chemical Analysis: A Series of Monographs on Analytical Chemistry and Its Applications)

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A complete and up-to-date manual on HPCE theory and practice

High Performance Capillary Electrophoresis brings together in one volume essential coverage of the theory, techniques, and applications of this highly useful and efficient technology.

Suitable for the novice as well as the experienced user of HPCE, this book features expert contributions from highly respected scientists representing a wide range of disciplines. Chapters, which are grouped into sections to make information easy to find, cover:

- * Theory and principles of the six HPCE techniques
- * Detection systems, including indirect detection
- * Essential operation topics such as sample introduction and stacking, coated capillaries, and method validation
- * Recently developed methods, including two-dimensional separations, nonaqueous CE, and HPCE on microchips
- * All of the basic HPCE applications, with an emphasis on bioanalytical uses
- * HPCE in the determination of physico-chemical properties of molecules

With features and capabilities that match--and even surpass--those of conventional electrophoresis and HPLC, high performance capillary electrophoresis (HPCE) is the fastest developing technology for the separation and analysis of chemical compounds. Keeping pace with the rapid changes in this field and the wealth of journal articles on the subject is a difficult and time-consuming challenge for anyone needing a basic and up-to-date grasp of HPCE.

This book makes it much easier to find this important information--with comprehensive one-source coverage of all of the essential aspects of HPCE theory, techniques, and applications. Featuring the contributions of well-qualified, highly regarded scientists, it is organized into sections on:

- * Theory and principles of HPCE techniques

- * Detection systems
- * Operation aspects and special methods in HPCE
- * Uses in chemical analysis
- * Physico-chemical studies

Specific topics addressed here that are not treated extensively by other books include two-dimensional separations, CE on microchips, nonaqueous CE, indirect detection, monitoring enzymatic reactions, and more.

As interest in HPCE continues to grow, it is clear that this technology has much to offer researchers and others working in disciplines ranging from analytical chemistry and biochemistry to pharmaceutical chemistry and biotechnology. High Performance Capillary Electrophoresis equips scientists and students with the knowledge they need to take immediate advantage of the exciting potential of HPCE.

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Editorial Review

From the Publisher

High performance capillary electrophoresis (HPCE) is a rapidly developing technology for separating and analyzing chemical compounds. The rapid developments in the field and the large number of journal publications have made it increasingly difficult to find essential and practical knowledge of HPCE easily. The book provides researchers with the theory, techniques and applications they need to understand and use HPCE effectively.

From the Inside Flap

With features and capabilities that match-and even surpass-those of conventional electrophoresis and HPLC, high performance capillary electrophoresis (HPCE) is the fastest developing technology for the separation and analysis of chemical compounds. Keeping pace with the rapid changes in this field and the wealth of journal articles on the subject is a difficult and time-consuming challenge for anyone needing a basic and up-to-date grasp of HPCE. This book makes it much easier to find this important information-with comprehensive one-source coverage of all of the essential aspects of HPCE theory, techniques, and applications. Featuring the contributions of well-qualified, highly regarded scientists, it is organized into sections on:

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From the Back Cover

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Users Review

From reader reviews:

Wayne Hause:

Have you spare time for any day? What do you do when you have more or little spare time? Yep, you can choose the suitable activity to get spend your time. Any person spent all their spare time to take a wander, shopping, or went to the particular Mall. How about open or maybe read a book entitled High-Performance Capillary Electrophoresis: Theory, Techniques, and Applications (Chemical Analysis: A Series of Monographs on Analytical Chemistry and Its Applications)? Maybe it is to get best activity for you. You realize beside you can spend your time using your favorite's book, you can wiser than before. Do you agree with their opinion or you have some other opinion?

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Jerri Jackson:

In this era which is the greater man or woman or who has ability in doing something more are more special than other. Do you want to become certainly one of it? It is just simple method to have that. What you are related is just spending your time almost no but quite enough to have a look at some books. One of several books in the top checklist in your reading list is actually High-Performance Capillary Electrophoresis: Theory, Techniques, and Applications (Chemical Analysis: A Series of Monographs on Analytical Chemistry and Its Applications). This book and that is qualified as The Hungry Mountains can get you closer in getting precious person. By looking upwards and review this book you can get many advantages.

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