

Electrokinetic Phenomena Principles And Applications In Analytical Chemistry And Microchip Technolog

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Electrokinetic Phenomena Principles And Applications

Electrokinetic Phenomena emphasizes the impact of methods such as capillary zone electrophoresis, capillary electrochromatography, and capillary gel electrophoresis on the analysis of biomolecules. This reference reveals the electrokinetic phenomena that underlie high-performance electro-based analytical tools and vividly depicts how electrodriven analytical tools revolutionize and expedite chemical, pharmaceutical, and biotechnological analysis.

Electrokinetic Phenomena: Principles and Applications in ...

Electrokinetic Phenomena. Principles and Applications in Analytical Chemistry and Microchip Technology Edited by Anurag S. Rathore (Amgen, Inc., Thousand Oaks, CA) and Andras Guttman (Diversa Corporation, San Diego, CA). Marcel Dekker: New York and Basel. 2004. xiv + 476 pp. \$175.00. ISBN 0-8247-4306-7. Allison

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Electrokinetic phenomena : principles and applications in analytical chemistry and microchip technology ... 13. NMR detection in capillary electrophoresis and capillary electrochromatography -- chapt. 14. Applications of capillary electrochromatography -- chapt. 15. Clinical applications of microfluidic devices Access-restricted-item true Addeddate

Electrokinetic phenomena : principles and applications in ...

Electrophoresis, which is one of the electrokinetic phenomena observed in colloidal systems, is the motion of charged colloidal particles in a liquid medium under an applied electric field. 1-43 Charged colloidal particles in the stationary state move with a constant velocity as a result of the balance between the applied electric field acting on the particles and a viscous resistance exerted by the liquid on the particles.

Electrokinetic Phenomena - an overview | ScienceDirect Topics

Basic principles of electrolyte chemistry for microfluidic electrokinetics. Part II:† Coupling between ion mobility, electrolysis, and acid-base ... coupled to local chemistry and electrokinetic phenomena. ... Such applications include capillary zone electrophoresis, isotachopheresis, isoelectric focusing, field

Basic principles of electrolyte chemistry for microfluidic ...

Application of electrical fields in fine-grained soils (silt and clay) results in electrokinetic phenomena that influence transport of water, charge, and mass. Electrokinetic is defined as the physicochemical transport of charge, action of charged particles, and effects applied potential on formation and fluid transport in porous media.

Electrokinetic Phenomenon - an overview | ScienceDirect Topics

Electrokinetic phenomena(EKP) can be loosely defined as all those phenomena involving tangential fluid motion adjacent to a charged surface.They are manifestations of the electrical properties of inter- faces under steady-state and isothermal conditions. In practice, they are often the only source of infor- mation available on those properties.

MEASUREMENT AND INTERPRETATION OF ELECTROKINETIC PHENOMENA

The discovery of electrokinetic phenomena by Reuss in 1808 and further investigations that gave rise to the concept of the electrical double layer have played an important role in the understanding of colloidal stability. Electrokinetic phenomena are a family of effects in which a liquid moves tangentially to a charged surface. Well-known phenomena of this kind are electrophoresis, electro ...

Applications of electrokinetic phenomena in materials ...

called electrokinetic remediation, electroreclamation, electrokinetic soil processing, and electrochemical decontamination, uses low-level di-rect current on the order of mA/cm² of cross-sectional area between the electrodes or an electric potential difference on the order of a few volts per centimeter across electrodes placed in the ground in an open flow arrangement.

Principles of electrokinetic remediation

On the other hand, the application of relevant mathematical principles and the worked examples are extremely useful to established researchers and professionals involved in a wide range of areas, including electroosmosis, streaming potential, electrophoretic separations, industrial practices involving colloids and complex fluids, environmental remediation, suspensions, and microfluidic systems.

Electrokinetic and Colloid Transport Phenomena | Wiley ...

Electrokinetic phenomena are a family of several different effects that occur in heterogeneous fluids, or in porous bodies filled with fluid, or in a fast flow over a flat surface. The term heterogeneous here means a fluid containing particles. Particles can be solid, liquid or gas bubbles with sizes on the scale of a micrometer or nanometer. There is a common source of all these effects—the so-called interfacial 'double layer' of charges. Influence of an external force on the diffuse ...

Electrokinetic phenomena - Wikipedia

The basic effect produces microvortices to enhance mixing in microfluidic devices, while various broken symmetries--controlled potential, irregular shape, nonuniform surface properties, and field...

(PDF) Induced-Charge Electrokinetic Phenomena: Theory and ...

Interfacial Electrokinetics and Electrophoresis presents theoretical models and experimental procedures for the analysis of electrokinetic phenomena. It discusses the physics and chemistry of...

Interfacial Electrokinetics and Electrophoresis - Google Books

Electrokinetic Phenomena a group of effects that are observed in disperse systems and in capillaries and that entail either the movement of one phase relative to another under the influence of an applied electric field or the production of a potential difference in the direction of the relative movement of phases that is due to mechanical forces.

Electrokinetic Phenomena | Article about Electrokinetic ...

basic principles of electrokinetic phenomena; molecular theories; electrokinetics of complex surfaces; electrokinetics of low dielectric fluids; advanced instrumentation and methods; electrokinetic self-assembly; charge regulation, binding, and electrokinetics in living matter ; electrokinetics in bioanalytical applications and bioseparation

Home | International Symposium on Elektrokinetics

split and stack fluid streams in a three-dimensional fluidic network.⁸ Such mixers can achieve exponential growth of stream- to-stream interfacial area for multiple split-and-stack cycles. Mi-croplume array injection is another out-of-plane mixer.⁹ A third type of passive mixer is a chaotic advection micromixer;¹⁰ which takes advantage of rapid stretching and folding of material lines

Electrokinetic Instability Micromixing

Principles of Colloid and Surface Chemistry, Third Edition, Revised and Expanded Paul C. Hiemenz , Raj Rajagopalan Limited preview - 1997 Common terms and phrases

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