



ELECTROKINETICS IN MICROFLUIDICS

Volume 2

Dongqing Li

Electrokinetics In Microfluidics

Xiangchun Xuan, Shizhi Qian



Electrokinetics In Microfluidics:

Electrokinetics in Microfluidics Dongqing Li, 2004-08-20 A lab on a chip device is a microscale laboratory on a credit card sized glass or plastic chip with a network of microchannels electrodes sensors and electronic circuits These labs on a chip can duplicate the specialized functions as performed by their room sized counterparts such as clinical diagnoses PCR and electrophoretic separation The advantages of these labs on a chip include significant reduction in the amounts of samples and reagents very short reaction and analysis time high throughput and portability Generally a lab on a chip device must perform a number of microfluidic functions pumping mixing thermal cycling incubating dispensing and separating Precise manipulation of these microfluidic processes is key to the operation and performance of labs on a chip The objective of this book is to provide a fundamental understanding of the interfacial electrokinetic phenomena in several key microfluidic processes and to show how these phenomena can be utilised to control the microfluidic processes For this purpose this book emphasises the theoretical modelling and the numerical simulation of these electrokinetic phenomena in microfluidics However experimental studies of the electrokinetic microfluidic processes are also highlighted in sufficient detail The first book which systematically reviews electrokinetic microfluidics processes for lab on a chip applications Covers modelling and numerical simulation of the electrokinetic microfluidics processes Providing information on experimental studies and details of experimental techniques which are essential for those who are new to this field Applications of the Boundary-element Method for Electrokinetics in Microfluidics Dustin L. House, 2012 **Electrokinetic Microfluidics and Nanofluidics**

Dongqing Li, 2022-11-18 This book reviews the latest advancement of microfluidics and nanofluidics with a focus on electrokinetic phenomena in microfluidics and nanofluidics It provides fundamental understanding of several new interfacial electrokinetic phenomena in microfluidics and nanofluidics Chapter 1 gives a brief review of the fundamentals of interfacial electrokinetics Chapter 2 shows induced charge electrokinetic transport phenomena Chapter 3 presents the new advancement in DC dielectrophoresis Chapter 4 introduces a novel nanofabrication method and the systematic studies of electrokinetic nanofluidics Chapter 5 presents electrokinetic phenomena associated with Janus particles and Janus droplets Chapter 6 introduces a new direction of electrokinetic nanofluidics nanofluidic iontronics Chapter 7 discusses an important differential resistive pulse sensor in microfluidics and nanofluidics MEMS Packaging Tai-Ran Hsu, 2004 This book covers the entire spectrum of assembly packaging and testing of MEMs microelectro mechanical systems and microsystems from essential enabling technologies to applications in key industries of life sciences telecommunications and aerospace engineering Micro/Nano-Chip Electrokinetics Xiangchun Xuan, Shizhi Qian, 2018-07-04 This book is a printed edition of the Special Issue Micro Nano Chip Electrokinetics that was published in Micromachines Encyclopedia of Microfluidics and Nanofluidics Dongqing Li, 2008-08-06 Covering all aspects of transport phenomena on the nano and micro scale this encyclopedia features over 750 entries in three alphabetically arranged volumes including the most up to date research

insights and applied techniques across all areas Coverage includes electrical double layers optofluidics DNC lab on a chip nanosensors and more **Electrokinetic Particle Transport in Micro-/Nanofluidics** Shizhi Qian,Ye Ai,2012-06-19

Numerous applications of micro nanofluidics are related to particle transport in micro nanoscale channels and electrokinetics has proved to be one of the most promising tools to manipulate particles in micro nanofluidics Therefore a comprehensive understanding of electrokinetic particle transport in micro nanoscale channels is crucial to the Micro/Nano-Chip Electrokinetics, Volume III Xiangchun Xuan,Shizhi Qian,2021-02-24 Micro nanofluidics based lab on a chip devices have found extensive applications in the analysis of chemical and biological samples over the past two decades Electrokinetics is the method of choice in these micro nano chips for transporting manipulating and sensing various analyte species e g ions molecules fluids and particles This book aims to highlight the recent developments in the field of micro nano chip electrokinetics ranging from the fundamentals of electrokinetics to the applications of electrokinetics to both chemo and bio sample handling Electrokinetic and Colloid Transport Phenomena Jacob H. Masliyah,Subir Bhattacharjee,2006-07-14 A new definitive perspective of electrokinetic and colloid transport processes Responding to renewed interest in the subject of electrokinetics Electrokinetic and Colloid Transport Phenomena is a timely overview of the latest research and applications in this field for both the beginner and the professional An outgrowth of an earlier text by coauthor Jacob Masliyah this self contained reference provides an up to date summary of the literature on electrokinetic and colloid transport phenomena as well as direct pedagogical insight into the development of the subject over the past several decades A distinct departure from standard colloid science monographs Electrokinetic and Colloid Transport Phenomena presents the most salient features of the theory in a simple and direct manner allowing the book to serve as a stepping stone for further learning and study In addition the book uniquely discusses numerical simulation of electrokinetic problems and demonstrates the use of commercial finite element software for solving these multiphysics problems Among the topics covered are Mathematical preliminaries Colloidal systems Electrostatics and application of electrostatics Electric double layer Electroosmosis and streaming potential Electrophoresis and sedimentation potential London Van der Waals forces and the DLVO theory Coagulation and colloid deposition Numerical simulation of electrokinetic phenomena Applications of electrokinetic phenomena Because this thorough reference does not require advanced mathematical knowledge it enables a graduate or a senior undergraduate student approaching the subject for the first time to easily interpret the theories 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

Design Automation Methods and Tools for Microfluidics-Based Biochips Jun Zeng,2006-11-08 Design Automation Methods and Tools for Microfluidics Based Biochips deals with all aspects of design automation for microfluidics based

biochips Experts have contributed chapters on many aspects of biochip design automation Topics covered include device modeling adaptation of bioassays for on chip implementations numerical methods and simulation tools architectural synthesis scheduling and binding of assay operations physical design and module placement fault modeling and testing and reconfiguration methods

Microfluidics Based Microsystems S. Kakaç,B. Kosoy,D. Li,A. Pramuanjaroenkij,2010-09-10 This volume contains an archival record of the NATO Advanced Study Institute on Microfluidics Based Microsystems Fundamentals and Applications held in e me Izmir Turkey August 23 September 4 2009 ASIs are intended to be high level teaching activity in scientific and technical areas of current concern In this volume the reader may find interesting chapters and various microsystems fundamentals and applications As the world becomes increasingly concerned with terrorism early spot detection of terrorist s weapons particularly bio weapons agents such as bacteria and viruses are extremely important NATO Public Diplomacy division Science for Peace and Security section support research Advanced Study Institutes and workshops related to security Keeping this policy of NATO in mind we made such a proposal on Microsystems for security We are very happy that leading experts agreed to come and lecture in this important NATO ASI We will see many examples that will show us Microfluidics usefulness for rapid diagnostics following a bioterrorism attack For the applications in national security and anti terrorism microfluidic system technology must meet the challenges To develop microsystems for security and to provide a comprehensive state of the art assessment of the existing research and applications by treating the subject in considerable depth through lectures from eminent professionals in the field through discussions and panel sessions are very beneficial for young scientists in the field

Microfluidic Devices for Biomedical Applications Xiujun (James) Li,Yu Zhou,2021-08-05 Microfluidic Devices for Biomedical Applications Second Edition provides updated coverage on the fundamentals of microfluidics while also exploring a wide range of medical applications Chapters review materials and methods microfluidic actuation mechanisms recent research on droplet microfluidics applications in drug discovery and controlled delivery including micro needles consider applications of microfluidic devices in cellular analysis and manipulation tissue engineering and their role in developing tissue scaffolds and cover the applications of microfluidic devices in diagnostic sensing including genetic analysis low cost bioassays viral detection and radio chemical synthesis This book is an essential reference for medical device manufacturers scientists and researchers concerned with microfluidics in the field of biomedical applications and life science industries Discusses the fundamentals of microfluidics or lab on a chip LOC and explores a wide range of medical applications Considers materials and methods for microfabrication microfluidic actuation mechanisms and digital microfluidic technologies Details applications of microfluidic devices in cellular analysis and manipulation tissue engineering and its role in developing tissue scaffolds and stem cell engineering

Microfluidics-Aided Technologies Dhananjay Bodas,Virendra Gajbhiye,2024-11-23 Microfluidics Aided Technologies Platforms for Next Generation Biological Applications aims to provide comprehensive information of microfluidic

technologies their development and biomedical applications The book provides the fundamentals of microfluidics and addresses the advances and challenges of microfluidic platforms for diagnostics biological assays cellular analysis and drug delivery Sections introduce micro scale flow enabled systems followed by discussions on applications in diagnostics prognostics and cellular analysis in the second and third section The fourth section focuses on breakthroughs in microfluidics like 3D bioprinting tissue on chip organ on chip and organism on chip The last section provides insights on microfluidics and the study of plants and microbes This book offers researchers an interdisciplinary perspective towards biological problems It is a resource for advanced undergraduate graduate students researchers and industry scientists interested in the emergence of advance techniques and next generation microfluidics aided technologies for applications in the biomedical and medical research Discusses the development of advanced techniques and methods for the diagnosis and treatment of various diseases Discusses experimental approaches that facilitate the study of various aspects of life sciences Presents biomaterial design strategies and recent breakthroughs for organ on chip and organism on chip platforms Summarize various polymers techniques and types of microfluidic devices

Microfluidics and Microscale Transport Processes Suman

Chakraborty,2012-10-04 The advancements in micro and nano fabrication techniques especially in the last couple of decades have led research communities over the world to invest unprecedented levels of attention on the science and technology of micro and nano scale devices and the concerned applications With an intense focus on micro and nanotechnology from a fluid

Advances in Fluid Mechanics X C. A. Brebbia,S. Hernández,2014-07-01 The field of fluid mechanics is vast and has numerous diverse applications This book covers a wide range of topics including basic formulations and their computer modelling as well as the relationship between experimental and analytical results The emphasis is on new applications and research currently in progress

Fundamentals of BioMEMS and Medical Microdevices Steven Saliterman,2006 The world is on the threshold of a revolution that will change medicine and how patients are treated forever Bringing together the creative talents of electrical mechanical optical and chemical engineers materials specialists clinical laboratory scientists and physicians the science of biomedical microelectromechanical systems bioMEMS promises to deliver sensitive selective fast low cost less invasive and more robust methods for diagnostics individualized treatment and novel drug delivery This book is an introduction to this multidisciplinary technology and the current state of micromedical devices in use today The first text of its kind dedicated to bioMEMS training Fundamentals of BioMEMS and Medical Microdevices is Suitable for a single semester course for senior and graduate level students or as an introduction to others interested or already working in the field

Analysis of Electrokinetic Flow in Microfluidic Chips Sanket Aryal,2012 **Mechanobiology Handbook, Second Edition** Jiro Nagatomi,Eno Essien Ebong,2018-12-07 Mechanobiology the study of the effects of mechanics on biological events has evolved to answer numerous research questions Mechanobiology Handbook 2nd Edition is a reference book for engineers scientists and clinicians who are interested in mechanobiology and a textbook for senior undergraduate to

graduate level students of this growing field Readers will gain a comprehensive review of recent research findings as well as elementary chapters on solid mechanics fluid mechanics and molecular analysis techniques The new edition presents in addition to the chapters of the first edition homework problem sets that are available online and reviews of research in uncovered areas Moreover the new edition includes chapters on statistical analysis design of experiments and optical imaging The editors of this book are researchers and educators in mechanobiology They realized a need for a single volume to assist course instructors as a guide for didactic teaching of mechanobiology to a diverse student body A mechanobiology course is frequently made up of both undergraduate and graduate students pursuing degrees in engineering biology or integrated engineering and biology Their goal was to present both the elementary and cutting edge aspects of mechanobiology in a manner that is accessible to students from many different academic levels and from various disciplinary backgrounds Moreover it is their hope that the readers of *Mechanobiology Handbook 2nd Edition* will find study questions at the end of each chapter useful for long term learning and further discussion Comprehensive collection of reviews of recent research Introductory materials in mechanics biology and statistics Discussion of pioneering and emerging mechanobiology concepts Presentation of cutting edge mechanobiology research findings across various fields and organ systems End of chapter study questions available online Considering the complexity of the mechanics and the biology of the human body most of the world of mechanobiology remains to be studied Since the field is still developing the *Mechanobiology Handbook* raises many different viewpoints and approaches with the intention of stimulating further research endeavours

Mechanobiology Handbook Jiro Nagatomi, 2011-03-15 Mechanobiology the study of the effects of mechanical environments on the biological processes of cells has evolved from traditional biomechanics via the incorporation of strong elements of molecular and cell biology Currently a broad range of organ systems are being studied by surgeons physicians basic scientists and engineers These mechanob

Metal Oxides for Biomedical and Biosensor Applications Kunal Mondal, 2021-12-04 *Metal Oxides for Biomedical and Biosensor Applications* gives an in depth overview of the emerging research in the biomedical and biosensing applications of metal oxides including optimization of their surface and bulk properties Sections cover biomedical applications of metal oxides for use in cell cultures antibacterial and antimicrobial treatments dental applications drug delivery cancer therapy immunotherapy photothermal therapy tissue engineering and metal oxide based biosensor development As advanced and biofunctionalized nano micro structured metal oxides are finding applications in microfluidics optical sensors electrochemical sensors DNA based biosensing imaging diagnosis and analysis this book provides a comprehensive update on the topic Additional sections cover research challenges technology limitations and future trends in metal oxides and their composites regarding their usage in biomedical applications Includes an overview of the important applications of metal oxides for biomedical and biosensing technologies Addresses the relationship between material properties such as structure morphology composition and performance Reviews the design and fabrication

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