

Microfluidics *for* Biotechnology

SECOND EDITION

JEAN BERTHIER



PASCAL SILBERZAN



Microfluidics For Biotechnology Second Edition

Jean Berthier, Kenneth A. Brakke



Microfluidics For Biotechnology Second Edition:

Microfluidics for Biotechnology Jean Berthier, Pascal Silberzan, 2010 The application of microfluidics to biotechnology is an exciting new area that has already begun to revolutionize how researchers study and manipulate macromolecules like DNA proteins and cells in vitro and within living organisms Now in a newly revised and expanded second edition the Artech House bestseller Microfluidics for Biotechnology brings you to the cutting edge of this burgeoning field Among the numerous updates the second edition features three entirely new chapters on non dimensional numbers in microfluidics interface capillarity and microdrops and digital two phase and droplet microfluidics Presenting an enlightening balance of numerical approaches theory and experimental examples this book provides a detailed look at the mechanical behavior of the different types of micro nano particles and macromolecules that are used in biotechnology You gain a solid understanding of microfluidics theory and the mechanics of microflows and microdrops The book examines the diffusion of species and nanoparticles including continuous flow and discrete Monte Carlo methods This unique volume describes the transport and dispersion of biochemical species and particles You learn how to model biochemical reactions including DNA hybridization and enzymatic reactions Moreover the book helps you master the theory applications and modeling of magnetic beads behavior and provides an overview of self assembly and magnetic composite Other key topics include the electric manipulation of micro nanoparticles and macromolecules and the experimental aspects of biological macromolecule manipulation

Open Microfluidics Jean Berthier, Kenneth A. Brakke, Erwin Berthier, 2016-07-20 Open microfluidics or open surface is becoming fundamental in scientific domains such as biotechnology biology and space First such systems and devices based on open microfluidics make use of capillary forces to move fluids without any need for external energy Second the openness of the flow facilitates the accessibility to the liquid in biotechnology and biology and reduces the weight in space applications This book has been conceived to give the reader the fundamental basis of open microfluidics It covers successively The theory of spontaneous capillary flow with the general conditions for spontaneous capillary flow and the dynamic aspects of such flows The formation of capillary filaments which are associated to small contact angles and sharp grooves The study of capillary flow in open rectangular pseudo rectangular and trapezoidal open microchannels The dynamics of open capillary flows in grooves with a focus on capillary resistors The case of very viscous liquids is analyzed An analysis of suspended capillary flows such flows move in suspended channels devoid of top cover and bottom plate Their accessibility is reinforced and such systems are becoming fundamental in biology An analysis of rails microfluidics which are flows that move in channels devoid of side walls This geometry has the advantage to be compatible with capillary networks which are now of great interest in biotechnology for molecular detection for example Paper based microfluidics where liquids wick flat paper matrix Applications concern bioassays such as point of care devices POC Thread based microfluidics is a new domain of investigation It is seeing presently many new developments in the domain of separation and filtration and opens

the way to smart bandages and tissue engineering The book is intended to cover the theoretical aspects of open microfluidics experimental approaches and examples of application

The Physics of Microdroplets Jean Berthier, Kenneth A. Brakke, 2012-04-30 The Physics of Microdroplets gives the reader the theoretical and numerical tools to understand explain calculate and predict the often nonintuitive observed behavior of droplets in microsystems Microdrops and interfaces are now a common feature in most fluidic microsystems from biology to biotechnology materials science 3D microelectronics optofluidics and mechatronics On the other hand the behavior of droplets and interfaces in today s microsystems is complicated and involves complex 3D geometrical considerations From a numerical standpoint the treatment of interfaces separating different immiscible phases is difficult After a chapter dedicated to the general theory of wetting this practical book successively details The theory of 3D liquid interfaces The formulas for volume and surface of sessile and pancake droplets The behavior of sessile droplets The behavior of droplets between tapered plates and in wedges The behavior of droplets in microchannels The effect of capillarity with the analysis of capillary rise The onset of spontaneous capillary flow in open microfluidic systems The interaction between droplets like engulfment The theory and application of electrowetting The state of the art for the approach of 3D microelectronics using capillary alignment

Lab-on-a-chip Yehya H. Ghallab, Wael Badawy, 2010 Here OCOs a groundbreaking book that introduces and discusses the important aspects of lab on a chip including the practical techniques circuits microsystems and key applications in the biomedical biology and life science fields Moreover this volume covers ongoing research in lab on a chip integration and electric field imaging Presented in a clear and logical manner the book provides you with the fundamental underpinnings of lab on a chip presents practical results and brings you up to date with state of the art research in the field This unique resource is supported with over 160 illustrations that clarify important topics throughout

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

Microfabrication for Microfluidics

Sang-Joon John Lee,Narayanan Sundararajan,2010 Providing a definitive source of knowledge about the principles materials and process techniques used in the fabrication of microfluidics this practical volume is a must for your reference shelf The book focuses on fabrication but also covers the basic purpose benefits and limitations of the fabricated structures as they are applied to microfluidic sensor and actuator functions You find guidance on rapidly assessing options and tradeoffs for the selection of a fabrication method with clear tabulated process comparisons

Acoustic Wave and Electromechanical

Resonators Humberto Campanella,2010 This groundbreaking book provides you with a comprehensive understanding of FBAR thin film bulk acoustic wave resonator MEMS microelectromechanical system and NEMS nanoelectromechanical system resonators For the first time anywhere you find extensive coverage of these devices at both the technology and application levels This practical reference offers you guidance in design fabrication and characterization of FBARs MEMS and NEBS It discusses the integration of these devices with standard CMOS complementary metal oxide semiconductor technologies and their application to sensing and RF systems Moreover this one stop resource looks at the main characteristics differences and limitations of FBAR MEMS and NEMS devices helping you to choose the right approaches for your projects Over 280 illustrations and more than 130 equations support key topics throughout the book

Open-Channel

Microfluidics Jean Berthier,Ashleigh B Theberge,Erwin Berthier,2019-09-04 Open microfluidics the study of microflows having a boundary with surrounding air encompasses different aspects such as paper or thread based microfluidics droplet microfluidics and open channel microfluidics Open channel microflow is a flow at the micro scale guided by solid structures and having at least a free boundary with air or vapor other than the advancing meniscus This book is devoted to the study of open channel microfluidics which contrary to paper or thread or droplet microfluidics is still very sparsely documented but bears many new applications in biology biotechnology medicine material and space sciences Capillarity being the principal force triggering an open microflow the principles of capillarity are first recalled The onset of open channel microflow is next analyzed and the fundamental notion of generalized Cassie angle the apparent contact angle which accounts for the presence of air is presented The theory of the dynamics of open channel microflows is then developed using the notion of averaged

friction length which accounts for the presence of air along the boundaries of the flow domain Different channel morphologies are studied and geometrical features such as valves and capillary pumps are examined An introduction to two phase open channel microflows is also presented showing that immiscible plugs can be transported by an open channel flow Finally a selection of interesting applications in the domains of space materials medicine and biology is presented showing the potentialities of open channel microfluidics Comprehensive Biotechnology ,2019-07-17 Comprehensive Biotechnology Third Edition Six Volume Set unifies in a single source a huge amount of information in this growing field The book covers scientific fundamentals along with engineering considerations and applications in industry agriculture medicine the environment and socio economics including the related government regulatory overviews This new edition builds on the solid basis provided by previous editions incorporating all recent advances in the field since the second edition was published in 2011 Offers researchers a one stop shop for information on the subject of biotechnology Provides in depth treatment of relevant topics from recognized authorities including the contributions of a Nobel laureate Presents the perspective of researchers in different fields such as biochemistry agriculture engineering biomedicine and environmental science

Micro-Drops and Digital Microfluidics Jean Berthier,2012-12-31 In this 2nd edition of Micro Drops and Digital Microfluidics Jean Berthier explores the fundamentals and applications of digital microfluidics enabling engineers and scientists to design this important enabling technology into devices and harness the considerable potential of digital microfluidics in testing and data collection This book describes the most recent developments in digital microfluidics with a specific focus on the computational theoretical and experimental study of microdrops Unique in its emphasis on digital microfluidics and with diverse applications ranging from drug delivery to point of care diagnostic chips organic synthesis to microreactors Micro Drops and Digital Microfluidics meets the needs of audiences across the fields of bioengineering and biotechnology and electrical and chemical engineering Authoritative reporting on the latest changes in microfluidic science where microscopic liquid volumes are handled as microdrops and separately from nanodrops A methodical examination of how liquid microdrops behave in the complex geometries of modern miniaturized systems and interact with different morphological micro fabricated textured solid substrates A thorough explanation of how capillary forces act on liquid interfaces in contact with micro fabricated surfaces Analysis of how droplets can be manipulated handled or transported using electric fields electrowetting acoustic actuation surface acoustic waves or by a carrier liquid microflow A fresh perspective on the future of microfluidics

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