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Electrical Double Layers in Biology

Edited by
Martin Blank

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Electrical Double Layers In Biology

A. Terrence Conlisk



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Electrical Double Layers in Biology Martin Blank, 1986-03-31 A number of apparently unrelated phenomena in biological systems e g biopolymer aggregation cell cell interactions ion transport across membranes arise from the special properties of charged surfaces A symposium entitled Electrical Double Layers in Biology focused on the common features of these phenomena The papers presented at that symposium are collected here and they illustrate ways in which an understanding of electrical double layers can elucidate a problem in Biology Partial contents Donnan Potential and Surface Potential of a Charged Membrane and Effect of Ion Binding on the Potential Profile An Empirical Relation for the Surface Potential of Phosphatidic Acid Monolayers Its Dependence on Calcium and the Role of Double Layer Theory Facilitation of Ion Permeability of Bilayer Membranes and their Phase Transition Membrane Potential of Squid Axons Electrical Double Layers in Ion Transport and Excitation Electrical Properties of Electroactive Bilayer Lipid Membranes Electrochemical and Macromolecular Interactions at Red Blood Cell Surface The Myosin Filament Charge Amplification and Charge Condensation Long Range Electrostatic Forces in Cylindrical Systems Muscle and Virus Gels *Electrical Double Layers in Biology* Konrad Bach, 1986-03-31 A number of apparently unrelated phenomena in biological systems e g biopolymer aggregation cell cell interactions ion transport across membranes arise from the special properties of charged surfaces A symposium entitled Electrical Double Layers in Biology which took place at the Toronto meeting of the Electrochemical Society 12 17 May 1985 focused on the common features of these phenomena The papers presented at that symposium are collected here and they illustrate ways in which an understanding of electrical double layers can elucidate a problem in Biology An example of this

approach can be seen from the paper I presented on ion transport and excitation where the unusual ion flows during nerve excitation are actually expected if one includes the effects of electrical double layers at membrane surfaces Furthermore the selectivity of the ion channels in these membranes can be better understood on this basis Other presentations account for such observations as the changes in spacing between muscle proteins during contraction the interactions of red cells to form rouleaux the electrical properties of algal cell membranes electrokinetic potentials during blood flow in arteries etc I trust that these papers will indicate the value of electrochemistry in the study of biological systems an area of research usually called Bioelectrochemistry and will encourage biologists to use these ideas when approaching related problems

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Molecular Theory of Electric Double Layers Dimitar N. Petsev, Frank van Swol, Laura J. D. Frink, 2021-10-22 The electrical double layer describes charge and potential distributions that form at the interface between electrolyte solutions and the surface of an object and they play a fundamental role in chemical and electrochemical behaviour Colloid science electrochemistry material science and biology are a few examples where such interfaces play a crucial role The focus of this book is on the application of modern liquid state theories to the properties of electric double layers where it demonstrates the ability of statistical mechanical approaches such as the classical density functional theory to provide insights and details that will enable a better and more quantitative understanding of electric double layers The book will be essential reading for advanced students and researchers in interfacial science and its numerous applications

Nanoelectromechanics in Engineering and Biology Michael Pycraft Hughes, 2018-10-03 The success growth and virtually limitless applications of nanotechnology depend upon our ability to manipulate nanoscale objects which in turn depends upon developing new insights into the interactions of electric fields nanoparticles and the molecules that surround them In the first book to unite and directly address particle electrokinetics and nanotechnology Nanoelectromechanics in Engineering and Biology provides a thorough grounding in the phenomena associated with nanoscale particle manipulation The author delivers a wealth of application and background knowledge from using electric fields for particle sorting in lab on a chip devices to electrode fabrication electric field simulation and computer analysis It also explores how electromechanics can be applied to sorting DNA molecules examining viruses constructing electronic devices with carbon nanotubes and actuating nanoscale electric motors The field of nanotechnology is inherently multidisciplinary in its principles in its techniques and in its applications and meeting its current and future challenges will require the kind of approach reflected in this book Unmatched in its scope Nanoelectromechanics in Engineering and Biology offers an outstanding opportunity for people in all areas of research and technology to explore the use and precise manipulation of nanoscale structures

Physical Principles of Electro-Mechano-Biology Christian Brosseau, 2023-09-01 This book covers the recently developed understanding of Electro Mechano Biology EMB in which the focus is primarily on the couplings between the electric and mechanical fields The emphasis lies on the analytical and computational aspects of

EMB at the cellular level The book is divided into two parts In the first part the author starts by defining and discussing the relevant basic aspects of the electrical and mechanical properties of cell membranes He provides an overview of some of the ways analytical modelling of cell membrane electrodeformation ED and electroporation EP appears in a variety of contexts as well as a contemporary account of recent developments in computational approaches that can feature in the theory initiative particularly in its attempt to describe the cohort of activities currently underway Intended to serve as an introductory text and aiming to facilitate the understanding of the field to non experts this part does not dwell on the set of topics such as cellular mechanosensing and mechanotransduction irreversible EP and atomistic molecular dynamics modelling of membrane EP The second and larger part of the book is devoted to a presentation of the necessary analytical and computational tools to illustrate the ideas behind EMB and illuminate physical insights Brief notes on the history of EMB and its many applications describing the variety of ideas and approaches are also included In this part the background of the first principles and practical calculation methods are discussed to highlight aspects that cannot be found in a single volume [Current Catalog National Library of Medicine \(U.S.\)](#), First multi year cumulation covers six years 1965 70 [National Library of Medicine Current Catalog National Library of Medicine \(U.S.\)](#), **Computational Methods in Surface and Colloid Science** Malgorzata Borowko,2019-04-23 This volume presents computer simulation methods and mathematical modelling of physical processes used in surface science research It offers in depth analysis of advanced theoretical approaches to behaviours of fluids in contact with porous semiporous and nonporous solid surfaces The book also explores interfacial systems for a wide variety of p **Solid-state Electronics and Photonics in Biology and Medicine 5** Y.-L. Wang,A. M. Hoff,C.-T. Lin,W. Wu,L. F. Marsal,M. J. Deen,T. Sakata,Z.-H. Lin,Z. P. Aguilar,2018-05-04 **Biomass and Biofuels from Microalgae** Navid R. Moheimani,Mark P. McHenry,Karne de Boer,Parisa A. Bahri,2015-04-11 This comprehensive book details the most recent advances in the microalgae biological sciences and engineering technologies for biomass and biofuel production in order to meet the ongoing need for new and affordable sources of food chemicals and energy for future generations The chapters explore new microalgae cultivation techniques including solid biofilm systems and heterotrophic production methods while also critically investigating topics such as combining wastewater as a source of nutrients the effect of CO₂ on growth and converting biomass to methane through anaerobic digestion The book highlights innovative bioproduct optimization and molecular genetic techniques applications of genomics and metabolomics and the genetic engineering of microalgae strains targeting biocrude production The latest developments in microalgae harvesting and dewatering technologies which combine biomass production with electricity generation are presented along with detailed techno economic modeling This extensive volume was written by respected experts in their fields and is intended for a wide audience of researchers and engineers *Nanotechnology for Biology and Medicine* Gabriel A. Silva,Vladimir Parpura,2011-10-22 This text book will bring together a mix of both internationally known and established senior scientists along side up and coming but already accomplished

junior scientists that have varying expertise in fundamental and applied nanotechnology to biology and medicine

Biological Effects of Electric and Magnetic Fields David O. Carpenter, S. N. Airapetián, 1994-06-15 Recent concerns over the possible hazards of electrical and magnetic fields in the home and workplace are comprehensively addressed within this book The chapters contain detailed research on the biological effects of electric and magnetic fields and evidence for and against any interaction of electromagnetic fields EMFs and biological systems The relative risk of exposure to EMFs Putative behavioral and neural effects of EMFs EMF effects on cells **The Biology of Fungi Impacting Human Health** WA

Shipton, 2014 Fungi have become increasingly significant determinants of human health and may cause as heavy a burden to health as viruses bacteria and parasites This outcome has occurred on account of the rise in diseases affecting the immune system and in the risk factors associated with advances in technologies used to treat various diseases and human conditions These trends are no more evident than in tropical locations This text emphasizes the biology of fungi impacting human health with an emphasis on the Asia Pacific region The author draws on his own experience working in tropical Australia Papua New Guinea and Thailand A range of information is presented on the natural relationships of fungi which helps the reader to understand the interactions these microbes engage in with other living organisms including plants and microfauna Highlighted are the abilities of fungi to survive in soil on plants and animals and their capacity to adapt to changing conditions and evade attempts to control them The successes and problems encountered in controlling fungi biologically are outlined including the development of vaccines Practical methods to limit the impact of mycotoxins produced by fungi are suggested including moderating plant growth conditions and being aware of human nutritional status *Charge Transfer in*

Physics, Chemistry and Biology A.M. Kuznetsov, 2020-09-23 This book covers the various processes of charge transfer in physics chemistry and biology and shows the similarities and differences between them It focuses on the physical mechanisms of the elementary processes to demonstrate their common physical nature *Essentials of Micro- and*

Nanofluidics A. Terrence Conlisk, 2013 This book introduces students to the basic physical principles to analyze fluid flow in micro and nano size devices This is the first book that unifies the thermal sciences with electrostatics and electrokinetics and colloid science electrochemistry and molecular biology The author discusses key concepts and principles such as the essentials of viscous flows an introduction to electrochemistry heat and mass transfer phenomena elements of molecular and cell biology and much more This textbook presents state of the art analytical and computational approaches to problems in all of these areas especially electrokinetic flows and gives examples of the use of these disciplines to design devices used for rapid molecular analysis biochemical sensing drug delivery DNA analysis the design of an artificial kidney and other transport phenomena This textbook includes exercise problems modern examples of the applications of these sciences and a solutions manual available to qualified instructors Physical Chemistry in Biology and Medicine Jesse Francis

McClendon, Grace Medes, 1925 Molecular Biology and Biotechnology Robert Allen Meyers, 1995-06-29 This is one volume

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