

Mind Body And Culture Anthropology And The Biological Interface

NMR Spectroscopy for Probing Functional Dynamics at Biological Interfaces
Chemistry of the Cell Interface Part A
Physics at the Biomolecular Interface
Nanoscale Liquid Interfaces
Micro- and Nano-Bionic Surfaces
Colloid and Interface Science
Bioelectrochemistry: General Introduction
Reprints of Papers by National Research Fellows in the Biological Sciences ...
Lipid and Biopolymer Monolayers at Liquid Interfaces
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Monograph Series
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Chemistry of the Cell Interface
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Physiological Abstracts
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Solids at the Biological Interface
The Journal of Biological Chemistry
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nmr spectroscopy has found a wide range of applications in life sciences over recent decades providing a comprehensive amalgamation of the scattered knowledge of how to apply high resolution nmr techniques to biomolecular systems this book will break down the conventional stereotypes in the use of nmr for structural studies the major focus is on novel approaches in nmr which deal with the functional interface of either protein protein interactions or protein lipid interactions bridging the gaps between structural and functional studies the editors believe a thorough compilation of these studies will open an entirely new dimension of understanding of crucial functional motifs this in turn will be helpful for future applications into drug design or better understanding of systems the book will appeal to nmr practitioners in industry and academia who are looking for a comprehensive understanding of the possibilities of applying high resolution nmr spectroscopic techniques in probing biomolecular interactions

chemistry of the cell interface discusses reactions involving the cells structured elements and interfacial reaction systems which are extrapolations from the conventional methodology of solution biochemistry the contributions to this two volume book deal with the relationship of structure to biochemical reactions part a chapters i v deals with the components of complex subcellular systems in vitro interface relationships model for lipid lipid and lipid protein interactions and reaction model for chemical phenomena in systems having restricted degrees of freedom part b chapters vi viii covers waters contributions to the reaction systems the consideration of modified proteins as model reactants and the aspects of protein chemistry pertinent to the design of interface experimental systems the book is suited for readers who wish to

broaden their understanding in interface chemistry within the biological cell

this book focuses primarily on the role of interfacial forces in understanding biological phenomena at the molecular scale by providing a suitable statistical mechanical apparatus to handle the biomolecular interface the book becomes uniquely positioned to address core problems in molecular biophysics it highlights the importance of interfacial tension in delineating a solution to the protein folding problem in unravelling the physico chemical basis of enzyme catalysis and protein associations and in rationally designing molecular targeted therapies thus grounded in fundamental science the book develops a powerful technological platform for drug discovery while it is set to inspire scientists at any level in their careers determined to address the major challenges in molecular biophysics the acknowledgment of how exquisitely the structure and dynamics of proteins and their aqueous environment are related attests to the overdue recognition that biomolecular phenomena cannot be effectively understood without dealing with interfacial behaviour there is an urge to grasp how biologically relevant behaviour is shaped by the structuring of biomolecular interfaces and how interfacial tension affects the molecular events that take place in the cell this book squarely addresses these needs from a physicist perspective the book may serve as a monograph for practitioners and alternatively as an advanced textbook fruitful reading requires a background in physical chemistry and some basics in biophysics the selected problems at the end of the chapters and the progression in conceptual difficulty make it a suitable textbook for a graduate level course or an elective course for seniors majoring in chemistry physics biomedical engineering or related disciplines

this book addresses the recent developments in the investigation and manipulation of liquids at the nanoscale this new field has shown important breakthroughs on the basic understanding of physical mechanisms involving liquid interfaces which led to applications in nanopatterning it has also consequences in force microscopy imaging in liquid environment the book proposes is a timely review of these various aspects it is co authored by 25 among the most prominent scientists in the field

micro and nano bionic surfaces biomimetics interface energy field effects and applications synthesizes the latest research in bio inspired surfaces and devices for tactile and flow field perception the book provides solutions to common problems related to flow field tactile perception intelligent mems sensors smart materials material removal methods cell particle control methods and micro nano robot technology with a heavy emphasis on applications throughout the book starts by providing insights into biomimetic device design outlining strategies readers can adopt for various engineering applications from there it introduces the controlling methods of smart materials controlling methods from external energy input and more sections demonstrate how to solve problems of high efficiency high quality and low damage material removal for metals composites soft tissues and other materials by applying bionic wave motion surface characteristics the latest theoretical and technical developments in field control methods applied to biological interfaces are also discussed and the book concludes with a chapter on fabrication strategies to synthesize micro nano functional particles based on bio templates provides an overview on the latest research in bio inspired surfaces and devices for tactile and flow field perception introduces techniques for characterizing different bionic surfaces and how to use energy fields analysis to treat different bionic surface and interface problems discusses the latest theoretical and experimental developments in field control and their applications in the biomedical field outlines fabrication methods and assembly and alignment processes of micro nano functional particles based on microorganism templates

provides a thorough understanding of the fundamental concepts and applications of colloid and interface science it deals with the colloid chemistry and interfacial phenomena at both fluid fluid and solid fluid interfaces the emerging areas of colloid and interface science such as nanomaterials and nanotechnology are also discussed

volume 1 of this series is intended to give the reader a fundamental understanding of the key areas deemed essential to the study of bioelec trochemistry a thorough grasp of the theory and methodology of these basic topics is vital to cope successfully with the complex phenomena that currently face investigators in most

bioelectrochemical laboratories chapter 1 outlines the nonequilibrium thermodynamics and kinetics of the processes involved stressing the connection between the two approaches particular emphasis is placed on the enzymes catalyzing cytosolic reactions and membrane transport the techniques discussed are sufficient for the study of systems in the steady state but systems that are evolving towards the steady state or show some other time dependent behavior require in addition the techniques of mathematical modelling these are dealt with in some detail in chapter 2 where network representation of the system is treated at length as the method of choice in carrying out appropriate simulations in chapter 3 attention is directed to the twin problems of water structure and ionic hydration

during the past few decades much research has been reported on the formation of insoluble monomolecular films of lipids and biopolymers synthetic polymers and proteins on the surface of water or at the oil water interface this interest arises from the fact that monomolecular film studies have been found to provide much useful information on a molecular scale information that is useful for understanding many industrial and biological phenomena in chemical agricultural pharmaceutical medical and food science applications for instance information obtained from lipid monolayer studies has been useful in determining the forces that are known to stabilize emulsions and biological cell membranes the current texts on surface chemistry generally devote a single chapter to the characteristics of spread monolayers of lipids and biopolymers on liquids and a researcher may have to review several hundred references to determine the procedures needed to investigate or analyze a particular phenomenon furthermore there is an urgent need at this stage for a text that discusses the state of the art regarding the surface phenomena exhibited by lipids and biopolymers as they are relevant to a wide variety of surface and interfacial processes

consists of reprints of articles from various journals

this book provides a contemporary research led overview of the applications of inorganic materials in biomedicine it begins with a short introduction summarising key concepts in inorganic materials layered materials framework materials etc and explaining the need for new materials in medicine it then discusses the key areas in which inorganic materials have been applied considering drug delivery imaging diagnostics and theranostics hard matter restoration and vaccines each chapter gives an overview of the major extant challenges in the research area before presenting a systematic review of how inorganic materials have been applied to gain traction in the field a clear focus is maintained on the fate of the applied materials in vivo clinical considerations and the path to translation from lab to clinic with contributions from leading researchers biomedical applications of inorganic materials will provide a comprehensive introduction for advanced undergraduates postgraduates and researchers wishing to learn about the topic

chemistry of the cell interface part b

vols for 1911 13 contain the proceedings of the helminthological society of washington issn 0018 0120 1st 15th meeting

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