

surfactant science series  
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# ELECTRICAL PHENOMENA AT INTERFACES

Fundamentals, Measurements,  
and Applications

Second Edition, Revised and Expanded



edited by  
Hiroyuki Ohshima  
Kunio Furusawa

# Electrical Phenomena At Interfaces

**Aleksandar M. Spasic, Jyh-Ping Hsu**



## **Electrical Phenomena At Interfaces:**

**Electrical Phenomena at Interfaces** Hiroyuki Ohshima, 2018-02-06 Revising updating and expanding information on developments since the late 1980s the second edition of this work presents practical fundamental material on interfacial electric phenomena in aqueous and nonaqueous systems as well as their relation to colloid stability The book includes 15 additional chapters that reflect collaborative efforts with new experts in the field Electrical Phenomena at Interfaces, in Chemistry, Physics and Biology John Alfred Valentine Butler, 1951 *Electrical Phenomena at Interfaces, Second Edition*, Hiroyuki Ohshima, Kunio Furusawa, 1998-08-21 Revising updating and expanding information on developments since the late 1980s the second edition of this work presents practical fundamental material on interfacial electric phenomena in aqueous and nonaqueous systems as well as their relation to colloid stability The book includes 15 additional chapters that reflect collaborative efforts with new experts in the field *Electrical Phenomena at Interfaces in Chemistry, Physics and Biology* John Alfred Valentine Butler, J. O'M. Bockris, 1951 **Electrical Phenomena at Interfaces and Biointerfaces** Hiroyuki Ohshima, 2012-01-25 This book bridges three different fields nanoscience bioscience and environmental sciences It starts with fundamental electrostatics at interfaces and includes a detailed description of fundamental theories dealing with electrical double layers around a charged particle electrokinetics and electrical double layer interaction between charged particles The stated fundamentals are provided as the underpinnings of sections two three and four which address electrokinetic phenomena that occur in nanoscience bioscience and environmental science Applications in nanomaterials fuel cells electronic materials biomaterials stems cells microbiology water purification and humic substances are discussed Electrical Phenomena at Interfaces John Alfred Valentine Butler, 1951 **Electrical Phenomena at Interfaces in Chemistry, Physics and Biology. Edited by J.A.V. Butler, Etc. [By Various Authors.]** John Alfred Valentine Butler, 1951 *Electrical Phenomena at Interfaces in Liquid Phase Reprographics* John Samuel Graham, 1991 **Studies on Electrokinetic Potentials** Henry B. Bull, Ross Aiken Gortner, 1930 **Dekker Encyclopedia of Nanoscience and Nanotechnology** James A. Schwarz, Cristian I. Contescu, Karol Putyera, 2004 Biophysical Chemistry of Biointerfaces Hiroyuki Ohshima, 2011-01-11 The first book on the innovative study of biointerfaces using biophysical chemistry The biophysical phenomena that occur on biointerfaces or biological surfaces hold a prominent place in the study of biology and medicine and are crucial for research relating to implants biosensors drug delivery proteomics and many other important areas Biophysical Chemistry of Biointerfaces takes the unique approach of studying biological systems in terms of the principles and methods of physics and chemistry drawing its knowledge and experimental techniques from a wide variety of disciplines to offer new tools to better understand the intricate interactions of biointerfaces Biophysical Chemistry of Biointerfaces Provides a detailed description of the thermodynamics and electrostatics of soft particles Fully describes the biophysical chemistry of soft interfaces and surfaces polymer coated interfaces and surfaces as a model for biointerfaces

Delivers many approximate analytic formulas which can be used to describe various interfacial phenomena and analyze experimental data Offers detailed descriptions of cutting edge topics such as the biophysical and interfacial chemistries of lipid membranes and gel surfaces which serves as good model for biointerfaces in microbiology hematology and biotechnology Biophysical Chemistry of Biointerfaces pairs sound methodology with fresh insight on an emerging science to serve as an information rich reference for professional chemists as well as a source of inspiration for graduate and postdoctoral students looking to distinguish themselves in this challenging field Dynamics of Adsorption at Liquid Interfaces S.S. Dukhin,G. Kretzschmar,R. Miller,1995-04-11 As the first of its kind this book provides a valuable introduction for scientists and engineers interested in liquid fluid interfaces and disperse systems to the rapidly developing area of adsorption dynamics It is the first extensive review available on the subject of dynamics of adsorption and gives a general summary of the current state of adsorption kinetics theory and experiments Current progress in recently designed set ups and improved and generalised known methods for studying interfacial relaxations is reviewed In addition the role of the electric charge of surfactants in the adsorption process is discussed in terms of a non equilibrium distribution of adsorbing ions in the diffuse layer Present theories of the effect of dynamic adsorption layers on mobile surfaces such as moving drops and bubbles based on both diffusion and kinetic controlled adsorption models are described and efficient approximate analytical methods to solve the mathematical problem of coupling surfactant transport and hydrodynamics are introduced The role of a dynamic adsorption layer in bubble rising film drainage and film stabilisation and in complex processes such as flotation and microflotation is discussed Containing more than 1100 references the book is essential reading for industrial scientists and graduate and post graduate students in physical surface and colloid chemistry physico chemical hydrodynamics water purification and mineral processing *Encyclopedia of Biocolloid and Biointerface Science, 2 Volume Set* Hiroyuki Ohshima,2016-09-26 Diese Enzyklopädie konzentriert sich einzig und allein auf Biokolloide und Biogrenzflächen Hauptthema sind nicht die wissenschaftlichen Aspekte rund um Kolloide und Grenzflächen Mit Biokolloiden und Biogrenzflächen beschäftigen sich immer mehr Wissenschaftler und in dieser Enzyklopädie werden zur Untersuchung von Phänomenen in biologischen Systemen weiche Partikel und weiche Grenzflächen als Oberflächenmodelle herangezogen Beschreibt detailliert die grundlegenden Theorien und erläutert die physikalisch-chemischen und theoretischen Aspekte der Biokolloid- und Biogrenzflächenwissenschaft Beinhaltet auch eine ausführliche Beschreibung der weichen Grenzflächen und Oberflächen Beschäftigt sich ebenfalls mit Anwendungen der Grundlagentheorien von Biokolloiden und Biogrenzflächen auf die Nano Bio- und Umweltwissenschaften Ein nützliches Nachschlagewerk genau zur richtigen Zeit für Forscher und Absolventen im Bereich der Biokolloid- und Biogrenzflächenwissenschaft sowie für Ingenieure der Fachrichtungen **Encyclopedia of Surface and Colloid Science, 2004 Update Supplement** P. Somasundaran,2014-05-08 Appending the Encyclopedia of Surface and Colloid Science by 42 entries as well as 3800 new citations 1012 equations and 485 illustrations and chemical structures this

important supplement summarizes a constellation of new theoretical and experimental findings related to chemical characterization mechanisms interfacial behavior methods and mo **Interfacial Dynamics** Nikola Kallay, 2000-01-03 An examination of the theoretical foundations of the kinetics and thermodynamics of solid liquid interfaces as well as state of the art industrial applications this book presents information on surface and colloidal chemical processes and evaluates vital analytical tools such as atomic force microscopy surface force apparatus measurements and photon correlation spectroscopy

The Thermodynamics of Electrical Phenomena in Metals, and A Condensed Collection of Thermodynamic Formulas Percy Williams Bridgman, 1961 Detergency G. Cutler, 2020-08-18 This volume provides an overview of the theory and practical aspects of the deterative process detergency testing analysis of detergents and progress in formulating detergents It discusses temperature effects and cold water cleaning only from the kinetic and mechanistic points of view *Finely Dispersed Particles* Aleksandar M. Spasic, Jyh-Ping Hsu, 2005-10-14 Over the last decade the biggest advances in physical chemistry have come from thinking smaller The leading edge in research pushes closer to the atomic frontier with every passing year Collecting the latest developments in the science and engineering of finely dispersed particles and related systems *Finely Dispersed Particles Micro Nano a Surface Chemistry of Froth Flotation* S. Ramachandra Rao, 2013-06-29 th The technology of froth flotation invented in the early 20 century was first used for the concentration of sulfide minerals Since then it has been applied for the processing of many nonsulfide ores as well including oxides carbonates silicates soluble minerals like halite and sylvite and energy minerals like coal and bitumen In recent years it has been used for several nonmineral applications such as waste water treatment deinking of paper for recycling and resource recovery from industrial wastes the technology continues to grow with new applications reported every year Flotation is based on chemical phenomena occurring at the interfaces solid water and air water Surface Chemistry principles have played a significant role in the development of flotation technology Knowledge of aqueous solution chemistry and electrochemistry has added to our understanding of the reactions in flotation systems Professor Jan Leja's book has well served researchers and students as they tried to understand the chemistry of flotation and it is a significant contribution to the advancement of knowledge However since the book was first published new research techniques and ever growing information have made an update necessary The revised edition compiled by Dr S R Rao has brought together fundamental aspects of the chemistry of flotation and how they apply to practical systems It should serve all who are working in the area of flotation and interested in exploring new applications of flotation technology Handbook of Surface and Colloid Chemistry K. S. Birdi, 2008-11-20 The third edition of this bestseller covers the latest advancements in this rapidly growing field Focusing on analyses and critical evaluation of the subject this new edition reviews the most up to date research available in the current literature International contributors offer their perspectives on various topics including micellar systems mi

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