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Surfactants: Chemistry, Interfacial Properties, Applications

V.B. Fainerman, D. Mobius
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Surfactants Chemistry Interfacial Properties Applications

David Baud



Surfactants Chemistry Interfacial Properties Applications:

Surfactants: Chemistry, Interfacial Properties, Applications D. Möbius, R. Miller, V.B. Fainerman, 2001-12-21 This publication provides comprehensive material on the chemical and physical attributes of surfactants and new models for the understanding of structure property relationships. *Surfactants Chemistry Interfacial Properties Applications* provides efficient instruments for the prognostication of principal physicochemical properties and the technologic applicability from the structure of a surfactant through the discussion of interrelations between the chemical structure, physicochemical properties and the efficiency of technologic application. Also included are informative overviews on new experimental techniques and abundant reference material on manufacturers' nomenclature, product properties and experimental examples. The publication is accompanied by a CD ROM which is needed for the application of the thermodynamic and kinetic models to experimental data.

Hydrophile - Lipophile Balance of Surfactants and Solid Particles Pyotr M. Kruglyakov, 2000-10-18 This book considers the different concepts of hydrophile-lipophile balance (HLB) of surfactants and solid particles and the main physicochemical properties of surfactant and solid interfaces which are used to define the hydrophile-lipophile balance. The book comprehensively analyses all interfacial and bulk properties of surfactants used for the determination of HLB, such as interfacial tension, distribution coefficient, adsorption, surface pressure, surfactants solubility, structure characteristics, distribution between heteropolar phases, micellar formation, chromatographic characteristics, phase separation in emulsions, phase inversion, temperature formation of three phase systems. The central point of the book is the energetic interpretation of the balance, i.e. the hydrophile-lipophile ratio. At the same time, the HLB number systems of Griffin and Davies and other independent methods of the hydrophile-lipophile balance definitions are discussed. PIT, polarity indexes, surfactant affinity, difference, etc. The possibility of application of the different characteristics of the hydrophile-lipophile balance as a criterion of phase inversion in emulsions and microemulsion systems, water-oil surfactant are considered. For the first time, the different methods of the hydrophile-lipophile balance definition for solid particles in compact and dispersed form are suggested by the author. The use of hydrophile-lipophile characteristics of solid particles as a criterion of phase inversion in emulsion stabilisation and for other applications is discussed.

Surfactants and Detergents Ashim Dutta, 2022-09-28 Surfactants are ubiquitous and have applications in diverse areas including food, cosmetics, detergents, lubricants, enhanced oil recovery (EOR) and targeted drug delivery systems. Their wide diversity of applications owes to their unique structure, namely a hydrophilic and a hydrophobic group present in the same molecule. Although most surfactants used industrially are synthetic, there is a growing need for natural surfactants as the latter is obtainable from renewable sources and are less toxic and highly biodegradable in contrast to their synthetic counterparts. This book is a compilation of interesting articles by various experts that cover various applications of both synthetic and natural surfactants.

Transport Processes at Fluidic Interfaces Dieter Bothe, Arnold Reusken, 2017-07-13 There are several physico-chemical processes that determine the behavior of

multiphase fluid systems e.g. the fluid dynamics in the different phases and the dynamics of the interface, mass transport between the fluids, adsorption effects at the interface and transport of surfactants on the interface and result in heterogeneous interface properties. In general, these processes are strongly coupled and local properties of the interface play a crucial role. A thorough understanding of the behavior of such complex flow problems must be based on physically sound mathematical models which especially account for the local processes at the interface. This book presents recent findings on the rigorous derivation and mathematical analysis of such models and on the development of numerical methods for direct numerical simulations. Validation results are based on specifically designed experiments using high resolution experimental techniques. A special feature of this book is its focus on an interdisciplinary research approach combining Applied Analysis, Numerical Mathematics, Interface Physics and Chemistry as well as relevant research areas in the Engineering Sciences. The contributions originated from the joint interdisciplinary research projects in the DFG Priority Programme SPP 1506 "Transport Processes at Fluidic Interfaces".

Surfactant-based Sensors in Chemical and Biochemical Detection
 Konstantinos Simeonidis, Stefanos Mourdikoudis, 2023-10-11
 Describing the importance of surfactants in electrochemical investigations related to biologically and environmentally vital chemicals, this book charts the progression of highly responsive electrochemical sensors using surfactants as a modifying agent in the sensor field. It provides contributed chapters from respected researchers on information concerning the activity of target molecules and electron transfer kinetics arising at the surface of the fabricated sensor materials. Surfactant-based electrochemical sensors are of great interest in the quest to find low cost, fast and highly responsive sensing devices and one aim of this book is to help improve the competence and knowledge in this newly emerging interdisciplinary research area. Attracting an audience of students, academics, industrialists and engineers, it will interest researchers seeking to use non-toxic sensors in their detection challenges.

Emulsions
 Reinhard Miller, Eduardo Guzmán-Solís, 2025-08-21
 This book presents a comprehensive investigation of the complex scientific principles and practical applications of emulsions, offering valuable references for researchers, industry professionals and advanced students in the fields of physical chemistry, material sciences and engineering. The book is structured in three sections which allow the readers to explore the fundamental principles of interfacial phenomena, the methodologies for emulsion preparation and the diverse applications of emulsions in various industrial branches in depth. The initial section establishes the fundamental principles with a particular focus on the physico-chemical characterization of interfaces pertinent to emulsion stabilization. The book meticulously examines several topics including adsorption dynamics, particle-laden interfaces and thin liquid films. It supports these discussions with a combination of experimental techniques and theoretical insights. The second section shifts focus to the practical aspects of emulsion production, examining state-of-the-art methods, the role of stabilizers and strategies for enhancing their stability, including innovations in nanoemulsions and aqueous two-phase systems. The final section presents several real-world applications demonstrating the significant role that

emulsions play in a number of fields including the petroleum industry pest control and pharmaceutical formulations This text featuring contributions from leading experts synthesizes foundational knowledge and cutting edge research thereby bridging the gap between theory and practice With an interdisciplinary scope the book addresses both academic and industrial perspectives and is therefore an indispensable addition to the library of anyone working with emulsions It provides the tools and understanding required to advance work in the development of new materials optimization of formulations and investigation of the mechanics of interfacial systems

Surface Activity in Drug Action ,2005-03-01 Surface activity is present in living systems for example in body fluid or cell soup and molecules of surface active nature are crucial to living matter and its organization Surface Activity in Drug Action proposes a liquid membrane hypothesis of drug action for surface active drugs Chapters 1 7 contains an account of the hypothesis and chapter 8 contains a general account of the application of surface activity in therapeutics The methodology and presentation of the information makes Surface Activity in Drug Action valuable reading for students and researchers interested in surface activity Is clearly written Includes contributions from prominent names in the field such as Bhise and Subrahmanyam Contains a general account of the application of surface activity in therapeutics

Stable-Nanoemulsions Joseph D'Arrigo,2011-04-21 This title is a greatly expanded and updated second edition of the original volume published by Elsevier in 1986 New material has been integrated with the original content in an organized and comprehensive manner Five new chapters have been included which review over one and a half decades of research into lipid coated microbubbles LCM and their medical applications The new chapters contain much experimental data which is examined in detail along with relevant current literature This current edition builds on the original work in effectively filling the gap in the market for a comprehensive account of the surfactant stabilization of coated microbubbles Presents updated results from extensive multidisciplinary research on coated microbubbles Greatly expanded and updated 2nd edition with five new chapters Fills the gap for a comprehensive and up to date account of subject matter

Characterization of Liquids, Nano- and Microparticulates, and Porous Bodies using Ultrasound Andrei S. Dukhin,Philip J. Goetz,2010-06-03 Two key words define the scope of this book ultrasound and colloids Historically there has been little real communication between practitioners in these two fields Although there is a large body of literature devoted to ultrasound phenomenon in colloids there is little recognition that such phenomena may be of real importance for both the development and applications of colloid science On the other side colloid scientists have not embraced acoustics as an important tool for characterizing colloids The lack of any serious dialogue between these scientific fields is the biggest motivation behind this book Covers in detail this multidisciplinary field combining acoustics electroacoustics colloid science analytical chemistry and rheology Provides a bibliography with more than 1 000 references Presents theories and their experimental verification as well as analysis of the methods and hardware pertaining to applications such as pharmaceuticals ceramics and polymers

Nanocomposite Structures and Dispersions Ignac Capek,2006-09-19 Nanocomposite Structures and Dispersions

summarizes the fundamentals and mechanistic approaches in preparation and characterization of colloidal nanoparticles and dispersions providing the readers a systematic and coherent picture of the field The book serves as an introduction to the interesting field of nanoscience based on polymer and metal colloidal nanoparticles and also presents the basic knowledge of polymer colloids preparation It places a special emphasis on polymer inorganic and metal nanomaterials classified as nanoparticles nanocrystals nanorods nanotubes nanobelts etc deals with the chemistry of the reaction approaches by which polymer and metal particles are synthesized The book explores both organic synthetic and natural and inorganic materials as well as their hybrids It describes in detail terms definitions theories experiments and techniques dealing with synthesis of polymer and metal particles It also discusses a variety of synthetic approaches including emulsion miniemulsion and microemulsion approaches homogeneous and heterogeneous nucleation approaches under mild and high temperatures There is also a chapter on modification and passivation of colloidal particles This book would be of interest to chemical engineers polymer chemists organic chemists colloid chemists materials scientists and nanotechnologists Although the text discusses nanoscience and nanotechnology from the viewpoint of a chemist it would also appeal to those just entering the field and experts seeking information in other sub fields Serves as a general introduction for those just entering the field and experts seeking information in other sub fields Variety of synthetic approaches is described including emulsion miniemulsion and microemulsion approaches homogeneous and heterogeneous nucleation approaches under mild and high temperatures Focused on both the organic synthetic and natural and inorganic materials and their hybrids

Whispering the Strategies of Language: An Psychological Journey through **Surfactants Chemistry Interfacial Properties Applications**

In a digitally-driven earth wherever monitors reign supreme and instant transmission drowns out the subtleties of language, the profound strategies and emotional subtleties concealed within words usually move unheard. Yet, nestled within the pages of **Surfactants Chemistry Interfacial Properties Applications** a captivating literary value blinking with fresh feelings, lies an exceptional quest waiting to be undertaken. Published by a skilled wordsmith, that enchanting opus encourages viewers on an introspective journey, softly unraveling the veiled truths and profound impact resonating within the fabric of every word. Within the mental depths of this poignant evaluation, we can embark upon a sincere exploration of the book is core themes, dissect its charming writing design, and fail to the powerful resonance it evokes deep within the recesses of readers hearts.

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