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Surfactants: Chemistry, Interfacial Properties, Applications

V.B. Fainerman, D. Möbius
and R. Miller, editors

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Surfactants Chemistry Interfacial Properties

Applications Volume 13 Studies In Interface Science

Hari Singh Nalwa

Surfactants Chemistry Interfacial Properties Applications Volume 13 Studies In Interface Science:

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.

[Surfactant Science and Technology](#) Laurence S. Romsted, 2014-05-05 Surfactant research explores the forces responsible for surfactant assembly and the critical industrial, medical and personal applications including viscosity control, microelectronics, drug stabilization, drug delivery, cosmetics, enhanced oil recovery and foods. *Surfactant Science and Technology: Retrospects and Prospects* a Festschrift in honor of Dr. Kash Mittal provides a broad perspective with chapters contributed by leaders in the fields of surfactant based physical, organic and materials chemistries. Many of the authors participated in a special symposium in Melbourne, Australia honoring Kash Mittal's 100th edited book at the 18th Surfactants in Solution (SIS) meeting. Each chapter provides an overview of a specific research area with discussions on past, present and future directions. The book is divided into six parts. Part I reviews the evolution of theoretical models for surfactant self-assembly and introduces a model for interpreting ion specific effects on aggregate properties. Part II focuses on interactions of surfactant solutions with solid supports, uses contact angles to understand hydrophobic/hydrophilic changes in a lipid layer, uses surface tension to understand molecular arrangements at interfaces, reviews spreading phenomena, discusses pattern formation on solid surfaces and applies tensiometry to probe flavor components of espresso. Part III discusses novel DNA based materials, multifunctional poly amino acid based graft polymers for drug delivery and polymeric surfactants for stabilizing suspensions and emulsions. Part IV introduces farm based biosurfactants from natural products and greener biosurfactants from bacteria. Part V explores lyotropic liquid crystals and their applications in triggered drug release, microemulsion properties and controlled drug release. The role of hydrotopes in formulations and in enhancing solubilization in liquid crystals, the potential of ionic liquids to generate tunable and selective reaction media and provides an overview of stimuli responsive surfactants. Focusing on emulsions, Part VI reviews the design of emulsion properties for various commercial applications, the role of surfactants in the oil and gas industries and surfactant mechanisms for soil removal via microemulsions and emulsification.

[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 *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

BioProducts Bhima R. Vijayendran,2023-07-04 The book is focused on Bio Products derived from renewable resources processed by conventional catalytic thermochemical processes and or emerging bioprocessing techniques including fermentation and synthetic biology It highlights some of these developments from discovery lab feasibility scale up and eventual commercialization of interest and value in all the major sectors of the economy [Fluid Mechanics of Surfactant and Polymer Solutions](#) Victor Starov,Ivan Ivanov,2014-05-04 Colloidal systems and dispersions are of great importance in oil recovery waste water treatment coating food and beverage industry pharmaceutical industry medicine environmental protection etc Colloidal systems and dispersions are always multi component and multiphase systems In these systems at least one dimension is in a range of colloidal forces action colloidal dispersions emulsions are examples of three dimensional colloidal systems while thin liquid films are examples of one dimensional colloidal systems The contribution presented in this

issue deals with flow distribution and redistribution coating and deposition of surfactant and polymer molecules in colloidal systems The book presents reviews of recent advances and trends by well known scientists and engineers in this area

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 s 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

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The Journal of Canadian Petroleum Technology ,2006 **International Symposium on Polymeric Materials (ISPM)** Nor Azura Abdul Rahim,Mohamad Kahar Ab Wahab,Muhammad Faheem Mohd Tahir,Hui Lin Ong,2025-07-10 Selected peer reviewed full text papers from the International Symposium on Polymeric Materials ISPM 2024 Selected peer reviewed full text papers from the International Symposium on Polymeric Materials ISPM 2024 May 14 16 2024 Arau Malaysia **Faculties, Publications, and Doctoral Theses in Chemistry and Chemical Engineering at United States Universities** American Chemical Society. Committee on Professional Training,1991 **Handbook of Surfaces and Interfaces of Materials: Biomolecules, biointerfaces, and applications** Hari Singh Nalwa,2001 **Handbook of Surfaces and Interfaces of Materials: Surface and interface analysis and properties** Hari Singh Nalwa,2001

Colloid Stability and Application in Pharmacy Tharwat F. Tadros,2007-09-04 This volume examines the role of colloid and interface science in pharmacy as well as pharmaceutical formulations and drug delivery It then goes on to treat pharmaceutical suspensions and emulsions including multiple emulsions as well as liposomes and the role of nanotechnology in drug delivery A final section is devoted to the hot topic of stem cell research **Handbook of Surfaces and Interfaces of**

Materials: Solid thin films and layers Hari Singh Nalwa,2001

[Handbook of Surfaces and Interfaces of Materials:](#)

[Nanostructured materials, micelles and colloids](#) Hari Singh Nalwa,2001 This handbook brings together under a single cover all aspects of the chemistry physics and engineering of surfaces and interfaces of materials currently studied in academic and industrial research It covers different experimental and theoretical aspects of surfaces and interfaces their physical properties and spectroscopic techniques that have been applied to a wide class of inorganic organic polymer and biological materials The diversified technological areas of surface science reflect the explosion of scientific information on surfaces and interfaces of materials and their spectroscopic characterization The large volume of experimental data on chemistry physics and engineering aspects of materials surfaces and interfaces remains scattered in so many different periodicals therefore this handbook compilation is needed The information presented in this multivolume reference draws on two decades of pioneering research on the surfaces and interfaces of materials to offer a complete perspective on the topic These five volumes Surface and Interface Phenomena Surface Characterization and Properties Nanostructures Micelles and Colloids Thin Films and Layers Biointerfaces and Applications provide multidisciplinary review chapters and summarize the current status of the field covering important scientific and technological developments made over past decades in surfaces and interfaces of materials and spectroscopic techniques with contributions from internationally recognized experts from all over the world Fully cross referenced this book has clear precise and wide appeal as an essential reference source long due for the scientific community The complete reference on the topic of surfaces and interfaces of materials The information presented in this multivolume reference draws on two decades of pioneering research Provides multidisciplinary review chapters and summarizes the current status of the field Covers important scientific and technological developments made over past decades in surfaces and interfaces of materials and spectroscopic techniques Contributions from internationally recognized experts from all over the world

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