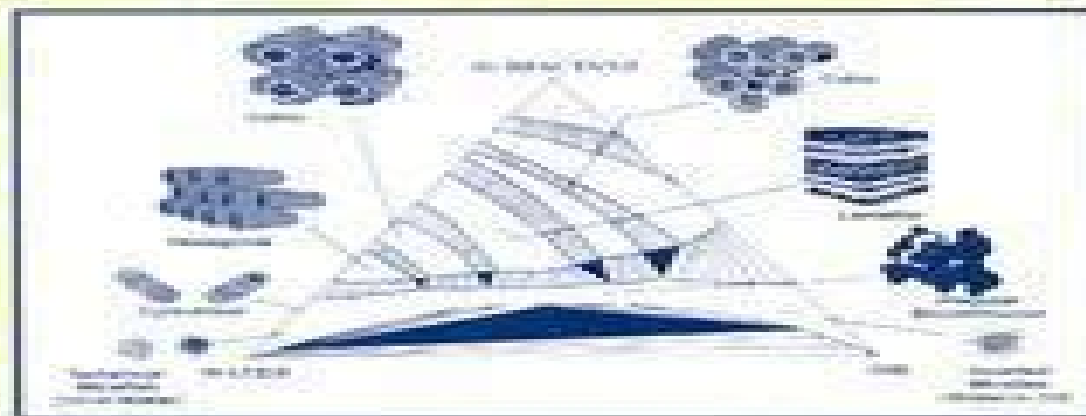


HANDBOOK OF MICROEMULSION SCIENCE AND TECHNOLOGY



edited by
Promod Kumar
K. L. Mittal

Handbook Of Microemulsion Science And Technology

Reinhard Miller, Eduardo Guzman



Handbook Of Microemulsion Science And Technology:

Handbook of Microemulsion Science and Technology Promod Kumar, K.L. Mittal, 2018-05-02 Demonstrating methods for overcoming stability issues in paints wax dispersions cosmetics food products and other industrial applications this reference probes theoretical and practical issues surrounding microemulsion science and technology Featuring the work of 51 international experts and containing almost 1000 instructive tables equations and illustrations this book reviews the performance of and prospects for experimental methods such as X ray diffraction transmission electron microscopy TEM light scattering small angle neutron scattering viscosimetry and nuclear magnetic resonance NMR to characterize various aspects of the dispersed phase of microemulsions A Guide to Formulation and Application of Low-Surfactant Microemulsions in Cleaning-Processes Anna Klemmer, 2014-12-17 Surfactants were and still are our inconspicuous companions at macroscopic but more often at microscopic scale Many technologies are only possible due to surfactant applications which are of constantly growing scientific and industrial interest for approximately 100 years 1 Hence since its definition micro emulsion by Schulman 2 optically isotropic surfactant formulations and their variations have become a significant part in today s society In nowadays most popular sector of nanomaterials surfactants are utilised for productions of such via template strategies 3 10 Organic synthesis benefits from the immensely huge interfacial area of microemulsions resulting in bigger yields which were not possible before 11 21 Closely related to organic synthesis pharmaceutical industries enjoy the benefits of drug delivery via e g vesicels which play a major role during drug transport into the blood stream 22 27 Simpler application of surfactants were reported 1984 where cationic surfactants were utilised as stabiliser for antibiotics 28 Concerning healthier and conscious nutrition microemulsions are applied for reduction of the caloric value of food 29 39 Also to contribute to environmental protection exhaust emissions can be reduced by introducing water and surfactants into fuels 40 42 Surfactant systems or in most cases microemulsions are very adaptable and can therefore be utilised in their most different states This chapter gives an insightful introduction into the world of microemulsions **Microemulsions** Monzer Fanun, 2008-12-15 The effective use of microemulsions has increased dramatically during the past few decades as major industrial applications have expanded in a variety of fields Microemulsions Properties and Applications provides a complete and systematic assessment of all topics affecting microemulsion performance and discusses the fundamental characteristics t *Microemulsion* Juan Mejuto, 2019-09-18 This book aims to provide readers with some of the current trends in microemulsions as scalable chemical nanoreactors The chapters include discussions on microemulsions as reaction media taking advantage of both the special behavior of trapped water inside their microdroplets and their potential use as a template for nanomaterials The information contained in this book covers topics that will be of interest to students and researchers in physical chemistry chemical engineering and material science In addition this book will serve as a tribute in memoriam to Prof Julio Casado Professor of Physical Chemistry at the Universities of Santiago de Compostela and Salamanca

and Doctor Honoris Causa from the University of Vigo who died on April 2 2018 Sit tibi terra levis **Exploring the Realms of Nature for Nanosynthesis** Ram Prasad,Anal K. Jha,Kamal Prasad,2018-10-24 Nature by dint of its constitution harbors many unassuming mysteries broadly manifested by its constituent cohorts If physics is the pivot that holds nature and chemistry provides reasons for its existence then the rest is just manifestation Nanoscience and technology harbor the congruence of these two core subjects whereby many phenomenon may be studied in the same perspective That nature operates at nanoscale obeying the principles of thermodynamics and supramolecular chemistry is a well understood fact manifested in a variety of life processes bones are restored after a fracture clots potentially leading to cerebral strokes can be dissolved The regeneration of new structures in our system follows a bottom up approach Be it a microbe benign or pathogenic plant lower or higher plant parts organs food beneficiaries animal lower higher animal processing wastes these all are found to deliver nanomaterials under amenable processing conditions Identically the molecules also seem to obey the thermodynamic principles once they get dissociated ionized and the energy captured in the form of bonding helps in the synthesis of a myriad of nanomaterials This edited volume explores the various green sources of nanomaterial synthesis and evaluates their industrial and biomedical applications with a scope of scaling up It provides useful information to researchers involved in the green synthesis of nanomaterials in fields ranging from medicine to integrated agricultural management

Surfactants and Polymers in Drug Delivery Martin Malmsten,2002-07-22 This reference features the latest findings surrounding the physicochemical aspects of surfactant and polymer systems to facilitate the design and understanding of novel and advanced drug delivery formulations It covers the basics of surfactant and polymer surface activity and self assembly the various types of structures formed by such compounds *Understanding Drug Release and Absorption Mechanisms* Mario Grassi,Gabriele Grassi,Romano Lapasin,Italo Colombo,2006-12-26 Demand for better reliability from drug delivery systems has caused designers and researchers to move away from trial and error approaches and toward model based methods of product development Developing such models requires cross disciplinary physical mathematical and physiological knowledge Combining these areas under a single cover Under Formulation Tools for Pharmaceutical Development J E Aguilar,2013-09-30 A range of new and innovative tools used for preformulation and formulation of medicines help optimize pharmaceutical development projects Such tools also assist with the performance evaluation of the pharmaceutical process allowing any potential gaps to be identified These tools can be applied in both basic research and industrial environment Formulation tools for pharmaceutical development considers these key research and industrial tools Nine chapters by leading contributors cover Artificial neural networks technology to model understand and optimize drug formulations ME_expert 2 0 a heuristic decision support system for microemulsions formulation development Expert system for the development and formulation of push pull osmotic pump tablets containing poorly water soluble drugs SeDeM Diagram an expert system for preformulation characterization and optimization of tables obtained by direct compression

New SeDeM ODT expert system an expert system for formulation of orodispersible tablets obtained by direct compression and 3D cellular automata in computer aided design of pharmaceutical formulations mathematical concept and F CAD software Coverage of artificial intelligence tools new expert systems understanding of pharmaceutical processes robust development of medicines and new ways to develop medicines Development of drugs and medicines using mathematical tools Compilation of expert system developed around the world

Properties and Uses of Microemulsions Desiree Nedra Karunaratne, Geethy Pamunuwa, R. J. K. U. Ranatunga, 2017-05-24 Properties and Uses of Microemulsions is intended to provide the reader with some important applications and features of these systems The intricate composition of microemulsions has made them applicable in many areas such as cosmetics pharmaceuticals food agriculture oil recovery chemical synthesis of nanoparticles and catalysts An introductory chapter starts off with the description of these applications followed by methods of characterization Thereafter a few practical applications of microemulsions focusing on drug delivery oil recovery and formation of nanocatalysts are described followed by the third section discussing the theoretical and physical parameters predicting microemulsion properties The use of spin polarized paramagnetic probes bending energetics and study of self propelled motion are some of the physical parameters employed to characterize the microemulsions

Emulsions Reinhard Miller, Eduardo Guzman, 2025-08-11 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

Oil Spill Remediation Ponisseril Somasundaran, Partha

Patra,Raymond S. Farinato,Kyriakos Papadopoulos,2014-04-10 This book provides a comprehensive overview of oil spill remediation from the perspectives of policy makers scientists and engineers generally focusing on colloid chemistry phenomena and solutions involved in oil spills and their cleanup First book to address oil spill remediation from the perspective of physicochemical and colloidal science Discusses current and emerging detergents used in clean ups Includes chapters from leading scientists researchers engineers and policy makers Presents new insights into the possible impact of oil spills on ecosystems as well as preventive measures **Lipid and Polymer-Lipid Systems** T. Nylander,B. Lindman,2003-07-01 The renewed and increasing interest in lipid self assembly phase behaviour and interfacial properties can be related to both a much improved insight in biological systems and the applications of lipids in food and pharmaceutical industry in the latter the development of drug delivery systems based on lipids has become in focus Amphiphilic systems comprise lipids surfactants as well as different types of polymers including block and graft copolymers Research on biological amphiphiles has often been conducted separate from research on synthetic ones However in recent years a very fruitful convergence between the two fields has evolved These new perspectives on fundamental research and applications of lipids are discussed in these proceedings from an international symposium on Lipid and Polymer Lipid systems October 2000 in Chia Laguna in Italy a joint undertaking of Prof Maura Monduzzi at Cagliari University Italy and Camurus Lipid Research Foundation Lund Sweden *Microemulsions* Reza Najjar,2012-03-16 The rapidly increasing number of applications for microemulsions has kept this relatively old topic still at the top point of research themes This book provides an assessment of some issues influencing the characteristics and performance of the microemulsions as well as their main types of applications In chapter 1 a short introduction about the background various aspects and applications of microemulsions is given In Part 2 some experimental and modeling investigations on microstructure and phase behavior of these systems have been discussed The last two parts of book is devoted to discussion on different types of microemulsion s applications namely use in drug delivery vaccines oil industry preparation of nanostructured polymeric metallic and metal oxides materials for different applications Nanocarriers: Drug Delivery System Nirmal Shah,2021-01-22 A suitable drug delivery system is an essential element in achieving efficient therapeutic responses of drug molecules With this desirability in mind the book unites different techniques through which extremely small sized particles can be utilized as a successful carrier for curing chronic as well as life threatening diseased conditions This is a highly informative and prudently organized book providing scientific insight for readers with an interest in nanotechnology Beginning with an overview of nanocarriers the book impetuses on to explore other essential ways through which these carriers can be employed for drug delivery to varieties of administrative routes This book discusses the functional and significant features of nanotechnology in terms of Lymphatic and other drug targeting deliveries The book is presenting depth acquaintance for various vesicular and particulate nano drug delivery carriers utilized successfully in Pharmaceutical as well as in Cosmeceutical industries along

with brief information on their related toxicities In addition the work also explores the potential applications of nanocarriers in biotechnology sciences for the prompt and safe delivery of nucleic acid protein and peptide based drugs An exclusive section in the book illuminates the prominence and competent applicability of nanotechnology in the treatment of oral cancer The persistence of this book is to provide basic to advanced information for different novel carriers which are under scale up consideration for the extensive commercialization The book also includes recent discoveries and the latest patents of such nanocarriers The cutting edge evidence of these nanocarriers available in this book is beneficial to students research scholars and fellows for promoting their advanced research Transdermal Drug Delivery Kevin Ita,2020-06-12

Transdermal Drug Delivery Concepts and Application provides comprehensive background knowledge and documents the most recent advances made in the field of transdermal drug delivery It provides comprehensive and updated information regarding most technologies and formulation strategies used for transdermal drug delivery There has been recent growth in the number of research articles reviews and other types of publications in the field of transdermal drug delivery Research in this area is active both in the academic and industry settings Ironically only about 40 transdermal products with distinct active pharmaceutical ingredients are in the market indicating that more needs to be done to chronicle recent advances made in this area and to elucidate the mechanisms involved This book will be helpful to researchers in the pharmaceutical and biotechnological industries as well as academics and graduate students working in the field of transdermal drug delivery and professionals working in the field of regulatory affairs focusing on topical and transdermal drug delivery systems Researchers in the cosmetic and cosmeceutical industries as well as those in chemical and biological engineering will also find this book useful Captures the most recent advancements and challenges in the field of transdermal drug delivery Covers both passive and active transdermal drug delivery strategies Explores a selection of state of the art transdermal drug delivery systems **Principles and Applications of Emulsion Polymerization** Chorng-Shyan Chern,2008-10-06 Up to

date coverage of methods of emulsion polymerization This book provides a comprehensive reference on emulsion polymerization methods focusing on the fundamental mechanisms and kinetics of each process as well as howthey can be applied to the manufacture of environmentally friendly polymeric materials Topics covered include Conventional emulsion polymerization Miniemulsion polymerization Microemulsion polymerization Industrial emulsion polymerization processes primarily the semibatch and continuous reactions systems The role of various colloidal phenomena in emulsion polymerization Important end use properties of emulsion polymer latex products Information on industrial applications in paints coatings adhesives paper and board and more This is a hands on reference for graduate students and professionals in polymerchemistry chemical engineering and materials science who are involved in researchon coatings adhesives rubber latex paints finishes and other materials that can becreated using various methods of emulsion polymerization **Reactions And Synthesis In Surfactant Systems** John Texter,2001-06-26 This work offers a comprehensive review of surfactant

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Concise Encyclopedia of Biomedical Polymers and Polymeric Biomaterials Munmaya Mishra, 2017-08-16 The Concise Encyclopedia of Biomedical Polymers and Polymeric Biomaterials presents new and selected content from the 11 volume Biomedical Polymers and Polymeric Biomaterials Encyclopedia The carefully culled content includes groundbreaking work from the earlier published work as well as exclusive online material added since its publication in print A diverse and global team of renowned scientists provide cutting edge information concerning polymers and polymeric biomaterials Acknowledging the evolving nature of the field the encyclopedia also features newly added content in areas such as tissue engineering tissue repair and reconstruction and biomimetic materials

Colloid Chemistry II Markus Antonietti, 2003-07-03 Over the past forty years good old fashioned colloid chemistry has undergone something of a revolution transforming itself from little more than a collection of qualitative observations of the macroscopic behavior of some complex systems into a discipline with a solid theoretical foundation and a whole to box of new chemical techniques It can now boast a set of concepts which go a long way towards providing an understanding of the many strange and interesting behavior patterns exhibited by natural and artificial systems on the mesoscale This second volume of Topics in Current Chemistry on Colloid Chemistry focuses on supramolecular approaches and new approaches towards polymer colloids also with strong emphasis on biological and biomedical applications Again topics were chosen which are expected to have broader relevance and to be interesting to a more general readership The volume opens with a contribution by C M Paleos in which new amphiphiles are presented which not only self assemble to micelles or vesicles but also possess the ability to show specific recognition of complementary H bridge partners Such structures might point a way to a rational addressing of surfaces and supramolecular structures by purely chemical means

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