

Microemulsions

Background, New Concepts,
Applications, Perspectives

Edited by
Cosima Stubenrauch

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Microemulsions Background New Concepts Applications Perspectives

Jan Jung-König



Microemulsions Background New Concepts Applications Perspectives:

Microemulsions Cosima Stubenrauch, 2008-11-10 Although first described by Winsor in 1954 the chemistry and technology of microemulsions attracts considerable research interest Until relatively recently microemulsions were not used in large scale applications as their phase behaviour and microstructure were not well understood and large amounts of surfactant were needed for their formulation With increased understanding of their behaviour and significantly improved methods for formulating and tuning their properties microemulsions are becoming increasingly useful in a range of industrial and research applications Covering both the advances that have enabled improved understanding of microemulsions and the applications in a range of industrial and research settings and written by a first class team of contributors this book will be essential reading for anyone using or considering using microemulsions in the course of their work Written for research chemists technologists and engineers in the fine specialty chemicals and polymer industries and those in university or government laboratories this book will be particularly valuable to those early on in their careers

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

Self-Organized Surfactant Structures Tharwat F. Tadros, 2011-10-05 Highlighting recent developments as well as future challenges this series of volumes covers such topics as emulsions nano emulsions nano dispersions and novel techniques for their investigation It also considers the fundamental approach in areas such as controlled release drug delivery and various applications of nanotechnology

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 s 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

Gelled Bicontinuous Microemulsions Michaela Laupheimer, 2014-06-20 Microemulsions and gels are well known systems which play a major role in colloidal and interfacial science In contrast the concept of gel microemulsions is still quite new Gelled microemulsions are highly promising for microemulsion applications in which low viscosity is undesirable such as administering a drug delivering microemulsion to a certain area of the skin It is essential to understand the properties of and structures formed in a system combining microemulsion components and a gelator This PhD thesis by Michaela Laupheimer provides an in depth discussion of the phase behavior and sol gel transition of a microemulsion gelled by a low molecular weight gelator as well as the rheological behavior of a gelled bicontinuous microemulsion Moreover the microstructure of the gelled bicontinuous system is fully clarified using techniques like self diffusion NMR and small angle neutron scattering SANS By comparing gelled bicontinuous microemulsions with corresponding non gelled microemulsions and binary gels it is demonstrated that bicontinuous microemulsion domains coexist with a gelator network and that the coexisting structures possess no fundamental mutual influence Hence gelled bicontinuous microemulsions have been identified as a new type of orthogonal self assembled system

Emulgiertechnik Karsten Köhler, Prof. Dr.-Ing. Heike P. Schuchmann, 2012-01-01 Emulgieren ist ein Fertigungsprozess der aus der Lebensmittel Pharma und Kosmetikindustrie nicht wegzudenken ist Mit Hilfe moderner Emulgiertechniken lassen sich eine Vielzahl von Produkten herstellen Die Neuauflage des Werkes Emulgiertechnik liefert hierf r das notwendige Wissen Emulgierverfahren aber auch die technologischen Grundlagen werden anschaulich und praxisnah erl utert

Advances in Food Rheology and Its Applications Jasim Ahmed, Santanu Basu, 2022-09-13 Advances in Food Rheology and Its Applications Development in Food Rheology Second Edition presents the latest advances in the measurement and application of food rheology one of the most important tools for food companies when characterizing ingredients and final products and a predictor of product performance and consumer acceptance This second edition provides coverage of new rheological

measurement techniques including ultrasonic measurements of rheological properties of food and NMR approach and precision in data handling including coverage of mathematical modeling of rheological properties As the range of food products has also broadened as a result of consumer demands and preference this second edition includes a series of new chapters on dairy and plant based foods The amalgamation between food texture and sensory attributes will also be addressed In addition coverage of the correlation between rheological behavior and modeling of the fluid in a human stomach and food digestion will be assessed A special focus has given on rheology of gel systems including food hydrogels bigel and organogels Written for food scientists food technologists sensory scientists and others working in academia and industry *Advances in Food Rheology and Its Applications Development in Food Rheology Second Edition* will be a welcomed and updated reference Considers the impact of artificial intelligence and machine vision on rheological characterization and process control Presents ultrasonic measurements of rheological properties of food and NMR approach and precision in data handling Covers thermodynamic approach of rheology and interfacial rheology Explains various gel systems rheology including bogels and organogels

Nanoskalige Carbonat-Hohlkugeln mit Containerfunktionalität für medizinische Anwendungen Jan Jung-König, 2016-10 Vor dem Hintergrund knapper werdender Ressourcen steigt die Bedeutung nanoskaliger Materialien Dnnere Schichten mit weniger Materialverbrauch neue Eigenschaften durch Skaleneffekte im Nanometerbereich und kleinere Leiterbahnen reduzieren nicht nur den Energie und Materialverbrauch sondern minimieren auch die Entsorgung In der pharmazeutischen Forschung geht nach der Entwicklung und Entdeckung neuer Wirkstoffe und deren direkter Rezeptoren im Körper der Weg hin zu einer gesamtheitlicheren Betrachtung die auch den Wirkstoffweg im Körper berücksichtigt Die Darreichungsform gewinnt große Bedeutung Nanoskalige Container sollen hier die Wirkung bei reduziertem Wirkstoffeinsatz maximieren um damit idealerweise Nebenwirkungen zu minimieren Die Herstellung neuer nanoskaliger Hohlkugelmaterialien für den Einsatz als Wirkstofftransporter wird hier vorgestellt Die neuen mit Doxorubicin gefüllten nanoskaligen Gadolinium und Magnesiumcarbonat Hohlkugeln zeigen in Zelltests gute Ergebnisse In der Arbeit werden neben neuen Synthesen und Materialien knapp und präzise die zahlreichen relevanten Analysetechniken erklärt

Pharmaceutical Microemulsions for Parenteral Delivery Vivek P. Chavda, Vandana B. Patravale, 2025-09-23 Parenteral delivery of hydrophobic drugs is a challenging task Research on exploiting newer approaches to make the delivery of pharmaceuticals by nondigestive tracts effective yet safe and cost effective shows that microemulsion is one such approach for parenteral delivery This new book provides systematic information regarding the preformulation of drugs formulation using quality by design QbD principles and characterization of parenteral microemulsions for drug delivery The book explores specific aspects of microemulsions such as the role of surfactants and cosurfactants in formulation clinical aspects of parenteral microemulsion regulatory perspectives and patents as well as future challenges in this field of research

Handbook of Encapsulation and Controlled Release Munmaya Mishra, 2015-12-01 The field of encapsulation especially

microencapsulation is a rapidly growing area of research and product development The Handbook of Encapsulation and Controlled Release covers the entire field presenting the fundamental processes involved and exploring how to use those processes for different applications in industry Written at a level comp

Cosmetic Science and Technology:

Theoretical Principles and Applications Kazutami Sakamoto,Robert Y. Lochhead,Howard I. Maibach,Yuji

Yamashita,2017-03-03 Cosmetic Science and Technology Theoretical Principles and Applications covers the fundamental aspects of cosmetic science that are necessary to understand material development formulation and the dermatological effects that result from the use of these products The book fulfills this role by offering a comprehensive view of cosmetic science and technology including environmental and dermatological concerns As the cosmetics field quickly applies cutting edge research to high value commercial products that have a large impact in our lives and on the world s economy this book is an indispensable source of information that is ideal for experienced researchers and scientists as well as non scientists who want to learn more about this topic on an introductory level Covers the science preparation function and interaction of cosmetic products with skin Addresses safety and environmental concerns related to cosmetics and their use Provides a graphical summary with short introductory explanation for each topic Relates product type performance to its main components Describes manufacturing methods of oral care cosmetics and body cosmetics in a systematic manner

Sugar Esters Microemulsions Monzer Fanun,2017-07-21 Sugar Esters Microemulsions covers recent advances in the formulation characterization and applications of sugar esters microemulsions This book comprehensively covers a decade of experience on using sugar surfactants for various applications It enables researchers in the field to follow a tested methodology in choosing the best sugar surfactant formulation that fits an application of interest This book is the ultimate reference for all those in industry or academy working in the field of microemulsions in general and sugar esters in particular Provides a timely reference for those working in research and development as well as academic scientists in the colloid and surface science field Presents a succinct summary on recent research eliminating the need to search through a multitude of resources for critical information Complements existing books on microemulsions which take the more traditional approach of reviewing the fundamental aspects of the subject Examines recent advances in the formulation and characterization of the properties of sugar ester microemulsions for various applications Provides case studies in each chapter to clarify theoretical material

Sugar-Based Surfactants Cristóbal Carnero Ruiz,2008-12-09 Touted as the new darling of the chemical industry alkyl polyglycosides are gaining in popularity due to the fact that they are readily biodegradable low toxic and made from renewable resources Sugar Based Surfactants compiles the most recent and relevant aspects of sugar based surfactants including self association phase behavior and interfacial properties Focusing on both colloidal and interfacial science the book deals with the adsorption of surfactants in both the air liquid and solid liquid interfaces It also covers new advances in surfactant science such as the development of a family of potent surface active agents that are non toxic and thus usable in

ubiquitous consumer products **13th International Symposium on Process Systems Engineering - PSE 2018, July 1-5 2018** Mario R. Eden, Gavin Towler, Maria Ierapetritou, 2018-07-19 Process Systems Engineering brings together the international community of researchers and engineers interested in computing based methods in process engineering This conference highlights the contributions of the PSE community towards the sustainability of modern society and is based on the 13th International Symposium on Process Systems Engineering PSE 2018 event held San Diego CA July 1 5 2018 The book contains contributions from academia and industry establishing the core products of PSE defining the new and changing scope of our results and future challenges Plenary and keynote lectures discuss real world challenges globalization energy environment and health and contribute to discussions on the widening scope of PSE versus the consolidation of the core topics of PSE Highlights how the Process Systems Engineering community contributes to the sustainability of modern society Establishes the core products of Process Systems Engineering Defines the future challenges of Process Systems Engineering **Integrated Chemical Processes in Liquid Multiphase Systems** Matthias Kraume, Sabine Enders, Anja Drews, Reinhard Schomäcker, Sebastian Engell, Kai Sundmacher, 2022-06-21 Liquid multiphase processes represent a promising option for realizing novel efficient and sustainable production processes as required for the transformation towards climate neutral manufacturing processes This volume presents the results obtained over twelve years in the DFG funded collaborative project Transregio 63 Integrated Chemical Processes in Liquid Multiphase Systems In an interdisciplinary approach to the design and operation of such processes essential principles of Green Chemistry are realized such as using long chain olefins as model representatives of renewable raw materials highly efficient catalysts and green solvents linked with process optimization to improve energy and material efficiency Experts from different fields addressed all steps of the development process from the description of the reactions on the molecular level via thermodynamics and the design of efficient separation processes to the operation of entire miniplants for liquid multiphase production processes Thus the complete development chain from the first reaction related investigations in the laboratory to the technological realization in miniplants with model based control is demonstrated Numerous methodological innovations are proposed and validated using several innovative phase systems thermomorphic multiphase systems microemulsion systems Pickering emulsions and homogeneously catalyzed reactions Engineers and chemists from the chemical industry as well as advanced students and researchers will get valuable insights into the physico chemical phenomena in chemical multiphase processes and benefit from recommendations concerning methods for the selection of phase systems and rapid model based process development *Silicone Dispersions* Yihan Liu, 2017-01-06 Silicone is an important class of materials used in applications that range from industrial assembly to everyday consumer products Silicones are often delivered and synthesized in dispersion forms the most common being liquid in liquid emulsion solid in liquid suspension air in liquid foam and solid in air powder This book compiles a carefully selected number of topics that are essential to the understanding creative design and

production of silicone dispersions As such it provides the first unified description of silicone dispersions in the literature

Functional Starch and Applications in Food Zhengyu Jin, 2018-09-19 This book discusses functional starch and its applications in food focusing on starches with possible health benefits or novel applications Covering slowly digested starch resistant starch porous starch starch microemulsions microcrystalline starch and noncrystallization starch and their applications this book provides a valuable reference for graduate students and research professionals in the food and chemical industries

Advances in Biomembranes and Lipid Self-Assembly Aleš Iglič, Patricia Losada Perez, Michael Rappolt, 2019-03-26 Advances in Biomembranes and Lipid Self Assembly Volume 29 formerly titled Advances in Planar Lipid Bilayers and Liposomes provides a global platform for the study of cell membranes lipid model membranes and lipid self assemblies from the micro to the nanoscale As planar lipid bilayers are widely studied due to their ubiquity in nature this book presents research on their application in the formulation of biomimetic model membranes and in the design of artificial dispersion of liposomes Moreover the book discusses how lipids self assemble into a wide range of other structures including micelles and the liquid crystalline hexagonal and cubic phases Chapters in this volume present both original research and comprehensive reviews written by world leading experts and young researchers Surveys recent theoretical and experimental results on lipid micro and nanostructures Presents potential use applications such as clinically relevant diagnostic and therapeutic procedures biotechnology pharmaceutical engineering and food products Includes both original research and comprehensive reviews written by world leading experts and young researchers Provides a global platform for a broad community of experimental and theoretical researchers studying cell membranes lipid model membranes and lipid self assemblies from the micro to the nanoscale

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

Nanoscience for the Conservation of Works of Art Piero Baglioni, David Chelazzi, 2015-11-09 Understanding the chemistry behind works of art and heritage materials presents an opportunity to apply scientific techniques to their conservation and restoration Manipulation of materials at the nanoscale affords greater accuracy and minimal disturbance to the original work while efficiently combating the affects of time and environment This book meets the growing demand for an all encompassing handbook to instruct on the use of today s science on mankind s cultural heritage The editors have pioneered modern techniques in art conservation over the last four decades and have brought together expertise from across the globe Each

chapter presents the theoretical background to the topic in question followed by practical information on its application and relevant case studies Introductory chapters present the science behind the physical composition of art materials Four chapters explore various cleaning techniques now followed by four chapters describing the application of inorganic nanomaterials Each chapter is fully referenced to the primary literature and offers suggestions for further reading Professional conservators and scientists alike will find this essential reading as will postgraduate students in the fields of materials and colloid science art restoration and nanoscience

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optional procedure trace a hand onto paper or cardstock

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