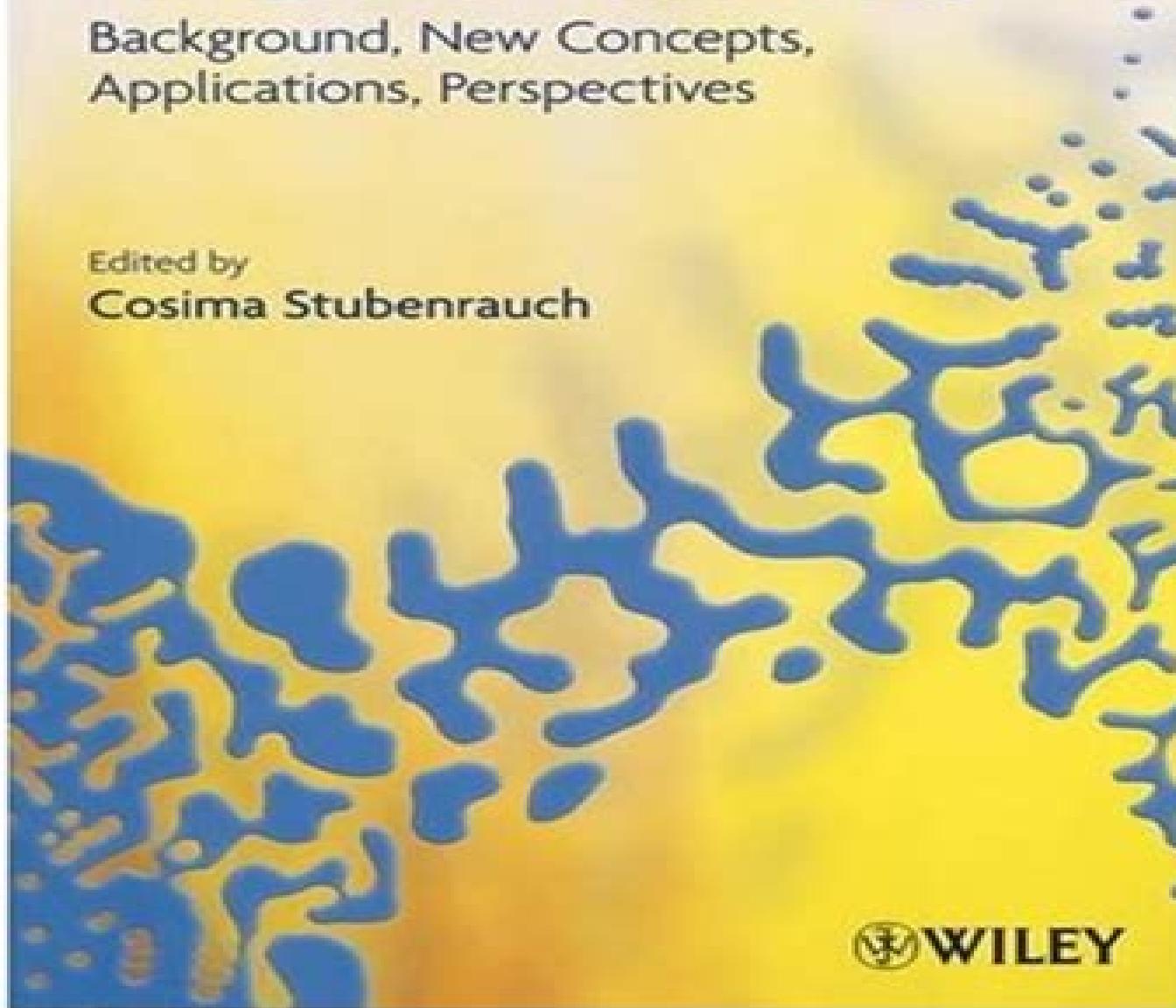


# Microemulsions

Background, New Concepts,  
Applications, Perspectives

Edited by

Cosima Stubenrauch



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# Microemulsions Background New Concepts Applications Perspectives

**G Thomas**

## **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 *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     **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     **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     *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     **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     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 comprehensibly 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 **New Technical Books** New York Public Library,1984 **Physics Briefs** ,1993 **Petroleum Abstracts** ,1993 **Electrical & Electronics Abstracts** ,1997 **Government Reports Announcements & Index** ,1994-04 **Journal of Petroleum Technology** ,1981 **Books in Print Supplement** ,2002 **International Books in Print** ,1990 **Scientific and Technical Books and Serials in Print** ,1989 **American Scientist** ,1942 **Directory of Published Proceedings** ,1989

**Energy Research Abstracts** ,1983 Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information **Earth Resources** ,1977 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International Aerospace Abstracts IAA

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