

Volume 1

Solution Chemistry of Surfactants

K.L. Mittal



Springer

Surfactants In Solution Volume 3

Zhe Xu



Surfactants In Solution Volume 3:

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

Surfactants in Solution K.L. Mittal, B. Lindman, 2013-11-11 This and its companion Volumes 2 and 3 document the proceedings of the 4th International Symposium on Surfactants in Solution held in Lund Sweden June 27 July 2 1982 This biennial event was christened as the 4th Symposium as this was a continuation of earlier conferences dealing with surfactants held in 1976 Albany under the title Micellization Solubilization and Microemulsions in 1978 Knoxville under the title Solution Chemistry of Surfactants and in 1980 Potsdam where it was dubbed as Solution Behavior of Surfactants Theoretical and Applied Aspects The Proceedings of all these symposia have been properly chronicled The Lund Symposium was billed as Surfactants in Solution as both the aggregation and adsorption aspects of surfactants were covered and furthermore we were interested in a general title which could be used for future conferences in this series As these biennial events have become a well recognized forum for bringing together researchers with varied interests in the arena of surfactants so it is amply vindicated to continue these and the next meeting is planned for July 9 13

1984 in Bordeaux France under the cochairmanship of K L Mittal and P Bothorel The venue for 1986 is still open although India inter alia is a good possibility Apropos we would be delighted to entertain suggestions regarding where and when these biennial symposia should be held in the future and you may direct your response to Kk Recent Advances in Adhesion Science and Technology in Honor of Dr. Kash Mittal Wojciech (Voytek) Gutowski, Hanna Dodiuk, 2013-12-31 The surface of an object is the first thing we see or touch Nearly every article or object we encounter at home in industry land transportation aerospace or the medical field in some way uses an adhesive a sealant or a decorative coating Adhesion science provides the technology and the know how behind these applications Recent Advances in *Surfactants in Chemical/Process Engineering* Wasan, 2017-10-19 The first reference to link chemical engineering technologies and surfactant science in such breadth of focus *Surfactants in Chemical Process Engineering* features contributions by major authorities in chemical engineering whose applications have opened important new fields for surfactant use These applications include dispersion science separation processes oil recovery microemulsions and environmental control This volume discusses ultrafiltration processes flotation metal extractions and more examines surfactants in process streams for such industrial separations as micellar enhanced ultrafiltration adsorbent regeneration micellar extractions and oil/water demulsification describes methodologies for separations of fatty acids metals minerals and impurities solvents and hydrocarbons for cost saving industrial and consumer product manufacture details techniques for developing and optimizing formulations for superior agricultural plant control or enhancement systems micro and macroemulsions and liquid surfactant membranes and looks closely at emulsion polymers in soil stabilizations protective coatings sealants adhesives textile processing paper finishing specialty concretes and tire manufacture **Adsorption and Aggregation of Surfactants in Solution** K.L. Mittal, Dinesh O. Shah, 2002-11-07 Offering the latest research and developments in the understanding of surfactant behavior in solutions this reference investigates the role and dynamics of surfactants and their solution properties in the formulation of paints printing inks paper coatings pharmaceuticals personal care products cosmetics liquid detergents and lubricants Exploring the science behind techniques from oil recovery to drug delivery the book covers surfactant stabilized particles solid particles at liquid interfaces nanocapsules aggregation behavior of surfactants micellar catalysis vesicles and liposomes the clouding phenomena viscoelasticity of micellar solutions and more **First International Congress on Adhesion Science and Technology---invited papers** van Ooij, Jr. Anderson, 2023-03-08 This Festschrift documents the Proceedings of the First International Congress on Adhesion Science and Technology held in honor of Dr Kash Mittal on the occasion of his 50 birthday in Amsterdam The Netherlands October 16 20 1995 It contains the full accounts of the plenary and invited lectures which are divided into the following seven parts Microemulsions: Structure and Dynamics Stig E. Friberg, Pierre Bothorel, 2018-01-18 This book describes the microemulsion phenomenon in a systematic manner and not only provides an up to date introduction to this topic but also serves as the basis for further development in the area The progress of

microemulsion research has taken place in well defined stages The introduction period was founded on Schulman s original discovery and was as expected focused on the interfacial free energy Because Schulman obtained his microemulsions from a macroemulsion by the addition of a cosurfactant The present stage is characterized by an extensively enhanced knowledge about structure and dynamics in these systems This has led to the realization that the structure of the microemulsions is related both to solutions with critical behaviour and long range order structures the lyotropic liquid crystals These two aspects have been elucidated independently by the French groups and by the Lund Spectroscopy group *Micellar Solutions and Microemulsions* Sow Hsin Chen,Raj Rajagopalan,2012-12-06 During the last decade there has been a renewed interest in research on supramolecular assemblies in solutions such as micelles and microemulsions not only because of their extensive applications in industries dealing with catalysts detergency biotechnology and enhanced oil recovery but also due to the development of new and more powerful experimental and theoretical tools for probing the microscopic behavior of these systems Prominent among the array of the newly available experimental techniques are photon correlation spectroscopy small angle neutron and X ray scattering and neutron spin echo and nuclear magnetic resonance spectroscopies On the theoretical side the traditionally emphasized thermodynamic approach to the study of the phase behavior of self assembled systems in solutions is gradually being replaced by statistical mechanical studies of semi microscopical and microscopic models of the assemblies Since the statistical mechanical approach demands as its starting point the microscopic structural information of the self assembled system the experimental determination of the structures of micelles and microemulsions becomes of paramount interest In this regard the scattering techniques mentioned above have played an important role in recent years and will continue to do so in the future In applying the scattering techniques to the supramolecular species in solution one cannot often regard the solution to be ideal This is because the inter aggregate interaction is often long ranged since it is coulombic in nature and the interparticle correlations are thus appreciable

Surfactants in Solution - Volume 3 , Proceedings of an international symposium on surfactants in solution, Lund, Sweden, June 27 - July 2 1982 Mittal KL Ed,1984 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 waister 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 know scientists and engineers in this area

The Enigmatic Realm of **Surfactants In Solution Volume 3**: Unleashing the Language is Inner Magic

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