

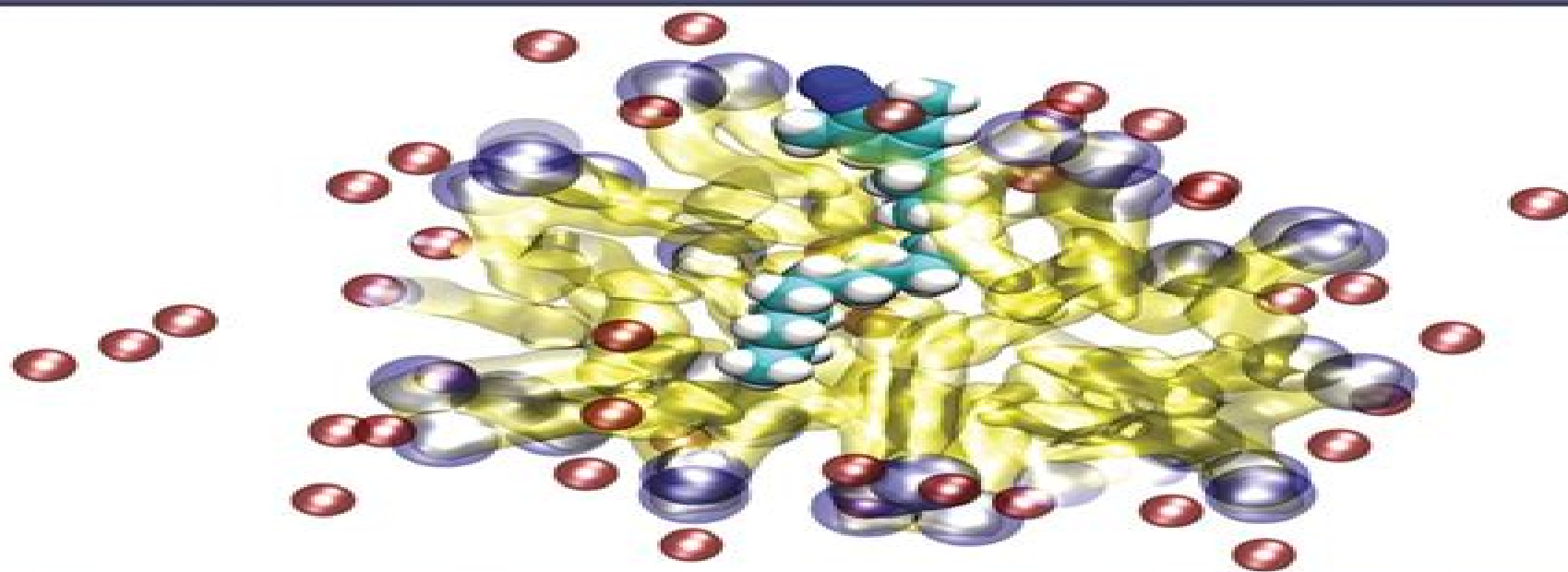
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# SURFACTANT SCIENCE AND TECHNOLOGY

Edited by  
**Laurence S. Romsted**

*A Festschrift in honor of  
Dr. Kashi Mittal*

RETROSPECTS AND PROSPECTS



# Surfactant Science And Technology Retrospects And Prospects

**N. Kosaric (ed)**



## **Surfactant Science And Technology Retrospects And Prospects:**

*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

**Surfactant Science and Technology** Taylor & Francis Group, 2021-12-13 This book provides a broad perspective on recent developments and future possibilities in surfactant science and technology It contains chapters by leaders in surfactant based physical organic and materials chemistries including many who participated in a special symposium honoring Kash Mittal's 100th edited book at the 18th Surfactants in S

**Surfactants in Tribology, Volume 5** Girma Biresaw, K.L. Mittal, 2017-09-11 Surfactants play a critical role in Tribology controlling friction wear and lubricant properties such as emulsification demulsification bioresistance oxidation resistance rust prevention and corrosion resistance This is a critical topic for new materials and devices particularly those built at the nanoscale This newest volume will address tribological properties of cutting fluids lubricant performance related to steel surfaces biolubricants and novel materials and ways to reduce friction and wear Scientists from industrial research and development R D organizations and academic research teams in Asia Europe the Middle East and North America will participate in the work Surfactants in

Tribology, Volume 6 Girma Biresaw, K.L. Mittal, 2019-07-11 Surfactants play a critical role in Tribology controlling friction wear and lubricant properties such as emulsification demulsification bioresistance oxidation resistance rust prevention and corrosion resistance This is a critical topic for new materials and devices particularly those built at the nanoscale This newest volume will address important advances methods and the use of novel materials to reduce friction and wear Scientists from industrial research and development R D organizations and academic research teams in Asia Europe the Middle East and North America will participate in the work

**Surface Chemistry of Surfactants and Polymers** Bengt Kronberg, Krister Holmberg, Bjorn Lindman, 2014-09-26 This book gives the reader an introduction to the field of surfactants in solution as well as polymers in solution Starting with an introduction to surfactants the book then discusses their environmental and health aspects Chapter 3 looks at fundamental forces in surface and colloid chemistry Chapter 4 covers self assembly and 5 phase diagrams Chapter 6 reviews advanced self assembly while chapter 7 looks at complex behaviour Chapters 8 to 10 cover polymer adsorption at solid surfaces polymers in solution and surface active polymers respectively Chapters 11 and 12 discuss adsorption and surface and interfacial tension while Chapters 13 16 deal with mixed surfactant systems Chapter 17 18 and 19 address microemulsions colloidal stability and the rheology of polymer and surfactant solutions Wetting and wetting agents hydrophobization and hydrophobizing agents solid dispersions surfactant assemblies foaming emulsions and emulsifiers and microemulsions for soil and oil removal complete the coverage in chapters 20 25

**New and Future Developments in Microbial Biotechnology and Bioengineering** Alexandre Gomes Rodrigues, 2020-06-10 New and Future Developments in Microbial Biotechnology and Bioengineering Microbial Biomolecules Properties Relevance and Their Translational Applications presents a concise review on microbial biotechnology along with impacts and recent results from research centers small companies and large enterprises The book brings the most relevant information on how we can use resources in this case from microorganisms and technology to develop solutions in fields like biofuels food cosmetics and medicine It covers case studies of start ups in the field and explains how scientists have moved their ideas into profitable bio based products that are necessary for our current living standards In addition the book describes strategic governmental programs designed to exploit biomass in a sustainable way along with detailed information on research in several high impact worldwide laboratories It gives concrete examples of ongoing research from molecules to methods such as L asparaginase extremophiles new diagnostics tools and the analytical methods that have raised the quality of the data obtained thereby boosting the so called bioeconomy Comprises a unique source of information on the various applications of microbial biomolecules Provides resourceful material for new ideas and strong rational application oriented stories Discusses biotech companies in various areas biofuel food medicine etc who are actively using microbial biomolecules Outlines scientific discoveries and their translation into profitable products Gives an insight perspective of institutional and governmental strategic research programs aiming to preserve explore and generate benefits from microbial biomolecules

**Surfactant Science and Technology** Drew Myers,1988      **Organized Solutions** Stig Friberg,1992-07-21      **Indian Science Abstracts** ,1968      **Surfactant Science** Steven John Abbott,2017      *Surfactants in Emerging Technology* Rosen,2020-11-25 This book is based on the proceedings of the conference The role of surfactants in new and emerging technology It examines the position of surfactants in the new growth areas and describes the needs for surfactant research to facilitate advances in those areas      **Design and Selection of Performance Surfactants** David R. Karsa,1999-11-05 Design and Selection of Performance Surfactants is the resource for clear informative in depth reviews of the most topical areas of surfactant science and technology This is the second volume in an annual series already recognized as an essential resource for major developments in the field Topics in this volume include spontaneous polymerization in organized micellar media the catalytic and kinetic effects in ethoxylation processes narrow and secondary alcohol ethoxylates plus the latest advances in fluorsurfactants and carbohydrate derived surfactants Further readings cover the cutting edge microbial and enzymatic production of biosurfactants advances in the computer modeling of surfactants International contributors detail the latest applications in oil drilling floor polishes and food emulsification Science and industry are constantly refining research and finding new applications for surface chemical technology Reading Design and Selection of Performance Surfactants is the most efficient and accessible way for chemists researchers and manufacturers to stay abreast of the latest developments      **Surfactant science series** ,      *Surfactants in Solution* Arun K. Chattopadhyay,K.L. Mittal,2020-08-26 Contains selected invited papers presented at the 10th International Symposium on Surfactants in Solution held in Caracas Venezuela The volume covers phase behaviour of monolayers contact angle hysteresis micellar relaxation micellar catalyzed reactions polymerization in microemulsions polymer surfactant complexation asphaltenes and more      **Recent Developments in the Technology of Surfactants** M.R. Porter,1990-10-31      *Surfactant Science* Steven John Abbott,2017 A concise and practical reference for understanding surfactant systems Offers original formulas and phase diagrams for improved surfactant design and performance Equations related to online computer apps allow readers to test their own data Written in a conversational form with a focus on real world problems and troubleshooting Applications to detergents coatings cosmetics soil and water remediation and biosurfactants Full chapter included on foam and anti foam science

**Surfactants in Solution** K.L. Mittal,2013-03-09 This and its companion volumes 7 8 and 9 document the proceedings of the 6th International Symposium on Surfactants in Solution SIS held in New Delhi India August 18 22 1986 under the joint auspices of the Indian Society for Surface Science and Technology and Indian Institute of Technology Delhi As this symposium was a landmark it represented the tenth anniversary of this series of symposia so it is very apropos to reflect on how these symposia have evolved to their present size and status The pedigree of this series of symposia goes back to 1976 when the premier symposium in this series was held Actually in 1976 it was a modest start and it was not possible at that time to gaze at the crystal ball and predict what would be the state of affairs in 1986 For historical purposes it should be

recorded here that the first symposium was held in Albany NY under the title Micellization Solubilization and Microemulsions the second symposium was christened Solution Chemistry of Surfactants and was held in Knoxville TN in 1978 the venue for the third symposium in 1980 was Potsdam NY and it was dubbed International Symposium on Solution Behavior of Surfactants Theoretical and Applied Aspects

**Surfactants in Consumer Products** Jürgen Falbe, 2012-12-06 In to days market custom formulated surfactants are offered for a wide range of applications The need for surfactants in detergents cleaning agents cosmetics toiletries is second only to an expanding demand in industrial applications But even within the non industrial areas the demands have undergone significant changes in recent years For example washing and cleaning temperatures have substantially decreased with increased energy conservation attitudes and more stringent regulatory requirements in the area of ecology and toxicology are leading to new product profiles New manufacturing technologies and an increased utilization of natural raw materials also factor into this continuing evolution These changes and trends have been described in numerous publications However a summary and survey of these developments is currently missing The book presented here **Surfactants in Consumer Products** is intended to close this gap The editor and authors dedicate this work to Dr Dr h c Konrad Henkel on the occasion of his 70th birthday Dr Henkel himself a scientist and industrialist contributed significantly to developments in the surfactant field In the nineteen fifties he initiated the change from soap based detergents to synthetic detergents within Henkel At the same time dishwashing detergents utilizing various synthetic surfactants were also developed and became the basis for modern manual and mechanical dishwashing

**Surfactants in Chemical/Process Engineering** Wasan, 1988-05-19 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 Book jacket

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