

Volume 1

Solution Chemistry of Surfactants

K.L. Mittal



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Surfactants In Solution Volume 3

Friberg



Surfactants In Solution Volume 3:

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

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 *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 Surfactant Science and Technology* Drew Myers, 2020-06-23 A solid introduction to the field of surfactant science this new edition provides updated information about surfactant uses structures and preparation as well as seven new chapters expanding on technology applications Offers a comprehensive introduction and reference of the science and technology of surface active materials Elaborates more fully than prior editions aspects of surfactant crystal structure as well as their effects on applications Adds more information on new classes and applications of natural surfactants in light of environmental consequences of surfactant use

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

Surfactants in Tribology Girma Biresaw, Kash Mittal, 2013-03-20 The manufacture and use of almost every consumer and industrial product rely on application of advanced knowledge in surface science and tribology. These two disciplines are of critical importance in major economic sectors such as mining, agriculture, manufacturing including metals, plastics, wood, computers, MEMS, NEMS, appliances, construction, transportation, and medical instruments, transplants, and diagnostic devices. An up to date reference with contributions by experts in surface science and tribology. *Surfactants in Tribology* Volume 3 discusses some of the underlying tribological and surface science issues relevant to many situations in diverse industries. The tradition of presenting new developments and research that began with the first volume in this groundbreaking series continues in the third volume. Comprising 19 chapters on various aspects of surfactants in tribology including subjects not covered in previous volumes, this book is presented in four parts: Nanotribology and Polymeric Systems, Biobased and Environmentally Friendly Lubricants and Additives, Tribological Properties of Aqueous and Nonaqueous Systems, and Advanced Tribological Concepts. Topics include tribological properties of nanoparticles, biopolymer friction, environmentally friendly surface active agents, biolubricants, aqueous mixed surfactant systems, and surfactants in motor oil, drilling fluids, and in electrowetting for MEMS and NEMS. The information in this volume provides a cutting edge reference connecting the fields of surfactants and tribology as a way forward to novel enhanced methods of controlling lubrication, friction, and wear. Written by a global team of established authorities, this book reflects the latest developments, highlighting the relevance of surfactants in tribological phenomena in a broad range of industries. It provides a valuable resource for readers working in or entering the fields of tribology and surface science. *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. **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 micro scopic 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

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 water 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

Detergency G. Cutler,2020-08-18 This volume provides an overview of the theory and practical aspects of the deterative process detergency testing analysis of detergents and progress in formulating detergents It discusses temperature effects and cold water cleaning only from the kinetic and mechanistic points of view

Reagents in Mineral Technology P. Somasundaran,2018-04-27 Reagents in Mineral Technology provides comprehensive coverage of both basic as well as applied aspects of reagents utilized in the minerals industry This outstanding single source reference opens with an explicit account of flotation fundamentals including coverage of wetting phenomena mineral water interfacial phenomena flotation chemistry and flocculation and dispersion of mineral suspensions It then discusses flotation of sulfide and nonsulfide minerals with attention to formation of lithiolates formation of metal thiol compounds application of fatty acids sulfosuccinic acids amines and other collectors Reagents in Mineral Technology also reviews adsorption of surfactants on minerals details adsorption of polymers and considers the chemistry and application of chelation agents in minerals separations Additional chapters consider grinding aids frothers inorganic and polymeric depressants dewatering and filtering aids analytical techniques and much more Unique in its depth of coverage Reagents in Mineral Technology will prove an invaluable reference for mineral engineers and processors analytical surface colloid and physical chemists petroleum petrochemical metallurgical and mining engineers and for use in advanced undergraduate and graduate level courses in these and related fields

Interfacial Phenomena in Apolar Media Eicke,1986-11-10 This book gives practical on the job guidance as well as detailed theoretical background on a wide range of occurrences including hydrophobic foams adsorption of surfactants polymers on solids from

nonpolar media and lubrication Extensive end of chapter references enumerate the most relevant and current publications on the topics discussed Providing over 130 instructive figures more than 100 equations and useful graphs and diagrams

Kinetics and Catalysis in Microheterogeneous Systems Michael Gratzel, 2020-08-19 This book provides a quantitative assessment of the advances in the area of catalysis and kinetics in microheterogeneous systems It is an invaluable resource for chemists interested in catalysis and reaction kinetics and physicists interested in semiconductors metal clusters and catalysis

Microemulsions: Structure and Dynamics Friberg, 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

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

Thin Liquid Films Ivan Ivanov, 2023-02-06 This comprehensive reference provided a systematic examination of both the theory and applications of thin liquid films giving a critical review of major concepts and unresolved or controversial problems as well as revealing experimental methods It includes results previously unpublished Combining the work of 20 leading researchers Thin Liquid Films furnishes a fundamental overview of thermodynamics of thin liquid films Generously illustrated with equations tables and drawings and containing more than 2 200 citations to pertinent literature this is an authoritative reference for physical surface and colloid chemists biophysicists and physicists chemical engineers and advanced graduate students in chemistry chemical engineering biophysics and physics

Interfacial Phenomena in Coal Technology Gregory D. Botsaris, Yuli M. Glazman, 2022-09-16 A different face of coal than that seen by miners Focuses on

the conversion of coal to a liquid and the clean utilization of coal Among topics discussed are surface phenomena involved in the beneficiation processes flotation and spherical agglomeration and the modification of coal fluid interfaces

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 [Encyclopedia of Surface and Colloid Science](#) P. Somasundaran, 2006 **Subject Guide to Books in Print**, 1993

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