



Jim Goodwin

# Colloids and Interfaces with Surfactants and Polymers

SECOND EDITION

 WILEY

# Interfaces Surfactants And Colloids In Engineering

**Ganesan Narsimhan**



## **Interfaces Surfactants And Colloids In Engineering:**

**Interfaces, Surfactants and Colloids in Engineering**, 1996-07-05 The 37th General Meeting of the German Colloid Society held in Dresden September 1995 is the basis of this volume It points to the important role that interface phenomena play in technological processes This volume deals with theory and application aspects in the fields of preparation and stability of dispersions and emulsions adsorption of surfactants polyelectrolytes and neutral polymers on solid surfaces wetting processes and electrokinetic phenomena Investigations on new methods to characterize interfaces surfactants and colloids are also presented

**Surfactant Formulation Engineering using HLD and NAC** Edgar Acosta, Jeffrey Harwell, David A. Sabatini, 2025-04-28 Surfactants are molecules that contain groups that are water loving hydrophilic and oil loving lipophilic The central question in formulations is often which of the two portions dominate the behavior of the surfactant For many years that question was answered in terms of the surfactant structure only However the modern view is that the hydrophilic lipophilic nature of the surfactant is the result of surfactant structure and formulation conditions nature of the oil temperature aqueous phase composition as captured by a semi empirical equation called the hydrophilic lipophilic difference HLD The HLD is a dimensionless number that indicate the approach to the point where the surfactant inverts its solubility from being water soluble negative HLD to oil soluble positive HLD The HLD alone is a good indicator of how the formulation could behave but it does not produce any formulation property that can be used to predict product performance The net average curvature NAC are a set of equations that take the value of HLD to predict the properties of the formulation such as oil and or water solubilization capacity interfacial tension phase diagrams contact angle and others Surfactant Formulation Engineering using HLD and NAC will not only introduce the reader to HLD NAC but also to the practical use of these concepts in numerous applications ranging from application in the petroleum industry to environmental remediation to food cosmetic and pharmaceutical applications and even nanotechnology The last part of the book will look at the molecular origins of the empirical terms in HLD via the Integrated Free Energy Model IFEM Concentrates on the HLD and NAC providing industrially relevant examples Provides the only single depository for HLD parameters Balances theory and application with insights from both academic and industrial authors Includes examples relevant to a wide range of fields with practical guides on how to go from the formulation objectives to an actual formulation design

**Colloid Process Engineering** Matthias Kind, Wolfgang Peukert, Heinz Rehage, Heike P. Schuchmann, 2015-04-22 This book deals with colloidal systems in technical processes and the influence of colloidal systems by technical processes It explores how new measurement capabilities can offer the potential for a dynamic development of scientific and engineering and examines the origin of colloidal systems and its use for new products The future challenges to colloidal process engineering are the development of appropriate equipment and processes for the production and obtainment of multi phase structures and energetic interactions in market relevant quantities The book explores the relevant processes and for controlled production

and how they can be used across all scales      **Surfactants and Detergents** Ashim Dutta,2019-11-20 Surfactants by virtue of their structure form self assembled organized structures that exhibit fascinating properties useful for a wide range of applications This book is a compilation of chapters from leading experts highlighting the use of specific surfactants and their functional properties in new and emerging areas of science and technology The first two chapters of this book discuss the various applications of surfactants including their use in cosmetics oil recovery from rocks and mineral processing Subsequent chapters cover advanced topics like new generation polymer based nanoparticles with microbial activity and complex phase systems formed as a result of charge induced interactions between surfactants polymers and proteins with potential applications in medical devices In addition this book reports for the first time on bio surfactants extracted from micro organisms present in the clouds This report is not the only one of its kind but it opens up a totally new area of research in terms of an unexplored source of bio surfactants It also paves the way for understanding their role in controlling our atmosphere and climate      **Integrating Green Chemistry and Sustainable Engineering** Shahid Ul Islam,2019-04-01

This groundbreaking book covers the recent advances in sustainable technologies and developments and describes how green chemistry and engineering practices are being applied and integrated in various industrial sectors Over the past decade the population explosion rise in global warming depletion of fossil fuel resources and environmental pollution have been the major driving force for promoting and implementing the principles of green chemistry and sustainable engineering in all sectors ranging from chemical to environmental sciences It plays a growing role in the chemical processing industries Green chemistry and engineering are relatively new areas focused on minimizing generations of pollution by utilizing alternative feedstocks developing selecting and using less environmentally harmful solvents finding new synthesis pathways improving selectivity in reactions generating less waste avoiding the use of highly toxic compounds and much more In an effort to advance the discussion of green chemistry and engineering this book contains 19 chapters describing greener approaches to the design and development of processes and products The contributors describe the production of third generation biofuels sustainable and economic production of hydrogen by water splitting using solar energy efficient energy harvesting mechanisms involved in the conversion of biomass green nanocomposites bio based polymers ionic liquids as green solvents sustainable nitrogen fixation bioremediation and much more The book aims at motivating chemists and engineers as well as postgraduate and PhD students and postdocs to pay attention to an acute need for the implementation of green chemistry principles in the field of chemical engineering biomedical engineering agriculture environmental engineering chemical processing and material sciences      **Green Sustainable Process for Chemical and Environmental Engineering and Science** Inamuddin,Charles Oluwaseun Adetunji,Mohd Imran Ahamed,2022-03-23 Green Sustainable Process for Chemical and Environmental Engineering and Science Biomedical Application of Biosurfactant in Medical Sector highlights the numerous applications of biosurfactants in the field of medicine especially as a replacement to synthetic drugs

which have developed several levels of resistance over the years Special emphasis is laid on their application as non pyrogenic and non toxic immunological adjuvants and their inhibitory characteristics against H K ATPase and defense against gastric ulcers along with their practical application as anti adhesive coating agents for medical insert materials The book addresses issues by combining knowledge of their production with information on a range of medical applications Drawing on the knowledge of its expert team of global contributors this book provides useful insights for all those currently or potentially interested in developing or applying biosurfactants in their own work Reflects on differing strains of fungi bacteria actinomycetes and yeast and reviews genetic modification of such strains for enhanced biosurfactant production Explores the use of biosurfactants across a broad range of medical applications Provides mathematical modeling metabolomics bioinformatics metabolic engineering systems biology and computer technology for solving real life challenges using biosurfactants Presents biosurfactants as an innovative green biotechnological solution to improve human health Highlights the numerous applications of biosurfactants in the field of medicine most especially as a replacement to synthetic drugs which have been reported to develop several levels of resistance over the years

*Formulation Engineering of Foods*  
Jennifer E. Norton, Peter Fryer, Ian T. Norton, 2013-06-10 Formulation Engineering of Foods provides an in depth look at formulation engineering approaches to food processing and product development of healthier higher performance foods Through the use of eye catching examples such as low fat and low calorie chocolate and salt reduction strategies in products like cheese and sauces the book is at once easy to relate to and innovative Presenting new methods and techniques for engineering food products this book is cutting edge and as food formulation is a new method of food science this is a timely publication in the field All three editors are based in the University of Birmingham base of the largest Chemical Engineering based food research group in the UK incorporating research into structured foods flavour delivery and food hygiene Research in food processing is carried out in partnership with key companies such as Nestl Unilever and Cadbury as well as through funding from research councils and DEFRA Joint research and collaboration has been carried out with Food Science departments at Nottingham Leeds and Reading

**Polymer Reaction Engineering of Dispersed Systems** Werner Pauer, 2018-11-19 The series Advances in Polymer Science presents critical reviews of the present and future trends in polymer and biopolymer science It covers all areas of research in polymer and biopolymer science including chemistry physical chemistry physics material science The thematic volumes are addressed to scientists whether at universities or in industry who wish to keep abreast of the important advances in the covered topics Advances in Polymer Science enjoys a longstanding tradition and good reputation in its community Each volume is dedicated to a current topic and each review critically surveys one aspect of that topic to place it within the context of the volume The volumes typically summarize the significant developments of the last 5 to 10 years and discuss them critically presenting selected examples explaining and illustrating the important principles and bringing together many important references of primary literature On that basis

future research directions in the area can be discussed Advances in Polymer Science volumes thus are important references for every polymer scientist as well as for other scientists interested in polymer science as an introduction to a neighboring field or as a compilation of detailed information for the specialist Review articles for the individual volumes are invited by the volume editors Single contributions can be specially commissioned Readership Polymer scientists or scientists in related fields interested in polymer and biopolymer science at universities or in industry graduate students

**Food Materials Science and Engineering** Bhesh Bhandari, 2012-07-30 Food Materials Science and Engineering covers a comprehensive range of topics in relation to food materials their properties and characterisation techniques thus offering a new approach to understanding food production and quality control The opening chapter will define the scope and application of food materials science explaining the relationship between raw material structure and processing and quality in the final product Subsequent chapters will examine the structure of food materials and how they relate to quality sensory perception processing attributes and nutrient delivery The authors also address applications of nanotechnology to food and packaging science Methods of manufacturing food systems with improved shelf life and quality attributes will be highlighted in the book

*Coulson and Richardson's Chemical Engineering* R. P. Chhabra, Basavaraj Gurappa, 2019-04-12 Coulson and Richardson's Chemical Engineering Volume 2A Particulate Systems and Particle Technology Sixth Edition has been fully revised and updated to provide practitioners with an overview of chemical engineering including clear explanations of theory and thorough coverage of practical applications all supported by case studies A worldwide team of contributors has pooled their experience to revise old content and add new content The content has been updated to be more useful to practicing engineers This complete reference to chemical engineering will support you throughout your career as it covers every key chemical engineering topic Fluid Flow Heat Transfer and Mass Transfer has been developed from the series volume 1 6th edition This volume covers the three main transport processes of interest to chemical engineers momentum transfer fluid flow heat transfer and mass transfer and the relationships between them Particulate Systems and Particle Technology has been developed from the series volume 2 5th edition This volume covers the properties of particulate systems including the character of individual particles and their behavior in fluids Sedimentation of particles both singly and at high concentrations flow in packed and fluidized beds and filtration are then examined Separation Processes has been developed from the series volume 2 5th edition This volume covers distillation and gas absorption which illustrate applications of the fundamental principles of mass transfer Several techniques adsorption ion exchange chromatographic and membrane separations and process intensification are described Chemical and Biochemical Reactors and Reaction Engineering has been developed from the series volume 3 3rd edition

**Microbiology for Cleaner Production and Environmental Sustainability** Naga Raju Maddela, Lizziane Kretli Winkelstroter Eller, Ram Prasad, 2023-08-15 Growth of populations increasing urbanization and rising standards of living due to technological innovations demand not only the meticulous use of shrinking resources but also

sustainable ways of producing materials for human welfare Cleaner production involves preventive and protective initiatives which are intended to minimize waste and emissions and maximize product output These novel microbiological techniques are a practical option for achieving environmental sustainability Microbiology for Cleaner Production and Environmental Sustainability serves as a valuable source of information about microbiological advancements for a sustainability in diversified areas such as energy resources food industries agricultural production and environmental remediation of pollution Features Covers key issues on the role of microbiology in the low cost production of bioenergy Provides comprehensive information on microorganisms for maximizing productivity in agriculture Examines green pharmaceutical production Provides the latest research on microbiological advancements in the restoration of contaminated sites

Encyclopedia of Surface and Colloid Science P. Somasundaran, 2006      **Drops and Bubbles in Contact with Solid Surfaces** Michele Ferrari, Libero Liggieri, Reinhard Miller, 2016-04-19 The third volume in a series dedicated to colloids and interfaces Drops and Bubbles in Contact with Solid Surfaces presents an up to date overview of the fundamentals and applications of drops and bubbles and their interaction with solid surfaces The chapters cover the theoretical and experimental aspects of wetting and wettability liquid solid      **Nanoporous Materials: Science And Engineering** G Q Max Lu, Xiu Song Zhao, 2004-11-22 Porous materials are of scientific and technological importance because of the presence of voids of controllable dimensions at the atomic molecular and nanometer scales enabling them to discriminate and interact with molecules and clusters Interestingly the big deal about this class of materials is about the nothingness within the pore space International Union of Pure and Applied Chemistry IUPAC classifies porous materials into three categories micropores of less than 2 nm in diameter mesopores between 2 and 50 nm and macropores of greater than 50 nm In this book nanoporous materials are defined as those porous materials with pore diameters less than 100 nm Over the last decade there has been an ever increasing interest and research effort in the synthesis characterization functionalization molecular modeling and design of nanoporous materials The main challenges in research include the fundamental understanding of structure property relations and tailor design of nanostructures for specific properties and applications Research efforts in this field have been driven by the rapid growing emerging applications such as biosensor drug delivery gas separation energy storage and fuel cell technology nanocatalysis and photonics These applications offer exciting new opportunities for scientists to develop new strategies and techniques for the synthesis and applications of these materials This book provides a series of systematic reviews of the recent developments in nanoporous materials It covers the following topics 1 synthesis processing characterization and property evaluation 2 functionalization by physical and or chemical treatments 3 experimental and computational studies on fundamental properties such as catalytic effects transport and adsorption molecular sieving and biosorption 4 applications including photonic devices catalysis environmental pollution control biological molecules separation and isolation sensors membranes hydrogen and energy storage etc a      **Handbook of**

**Surface and Colloid Chemistry** K. S. Birdi, 2015-06-25 This new edition of the Handbook of Surface and Colloid Chemistry informs you of significant recent developments in the field It highlights new applications and provides revised insight on surface and colloid chemistry's growing role in industrial innovations The contributors to each chapter are internationally recognized experts Several chapter

**Surfactants** Olasehinde Owoseni, 2024-01-17 This book presents detailed fundamentals of surfactant systems and links these fundamentals to emerging perspectives in the field of surfactant science Key topics include environmentally friendly surfactants ionic liquid based surfactants chemically enhanced oil recovery synergy of surfactants with clay minerals and reactions in microheterogeneous surfactant systems This book is an excellent resource for students researchers and industry professionals

**The Chemistry of Clay-Organic Reactions** Benny K.G Theng, 2024-05-29 The second edition of The Chemistry of Clay Organic Reactions book provides a comprehensive and fully updated summary of the literature on the interactions of clay minerals with organic molecules including reaction mechanisms and bonding modes together with their practical and industrial applications The reader will gain an insight into the formation and properties of complexes between clay minerals and a variety of organic compounds and the use of such complexes as sorbents and carriers of organic pollutants pesticides dyes and pharmaceuticals KEY FEATURES An authoritative resource providing a detailed synthesis of published data on clay organic complexes and reactions Authored by a globally recognized expert in the field Describes developments in the interactions of organic compounds with fibrous and short range order clay minerals This book is written for environmental and industrial chemists organic geochemists and soil scientists and it will appeal to academics researchers industry professionals and graduate students

**Oligomerization of Chemical and Biological Compounds** Claire Lesieur, 2014-06-18 Many thanks to the authors for high quality chapters and to the referees for helping improve the manuscripts The book is interdisciplinary it covers fields from organic chemistry to mathematics and raises different aspects of oligomerization It is a great source of information as every chapter introduces general knowledge and deep details Mixing communities is to instigate novel ideas and hopefully help looking at oligomerization with new eyes

*Aerated Foods* Ganesan Narsimhan, 2019-06-07 Explore the roles aeration can play in the production stability and consumer experience of foods Aeration is an increasingly prevalent part of food manufacturing bringing a light texture enhanced appearance and richer flavors to a wide range of products Essential to the creation of everything from ice cream and popcorn to cheese and beer the incorporation of fine air bubbles into the foods we consume can also boost satiety and thus reduce calorific intake Aerated Foods examines this process in detail offering a complete overview of all aspects of aeration With sections that address the effects of aeration upon product structure and stability this informative book explains how food formulation influences the shelf life texture and overall experience of different foods Chapters also outline the various methods by which aeration can be achieved breaking down the science and technology involved in the incorporation of air Details the mechanisms and overall results of aeration as a method of food processing Covers innovative and



experimental aeration techniques Looks at the role of aeration in baking Aerated Foods provides food scientists researchers and product developers with an invaluable guide to this multifaceted and fast growing method of food production Trends in Colloid and Interface Science XIV Vitaly Buckin,2003-07-01 The 13th Conference of the European Colloid and Interface Society ECIS 99 was held in September 1999 in Dublin Ireland It brought together scientists from academic research and industry within the field of physics and chemistry of colloids and interfaces The Conference focused on the following topics Surfactant colloids Polymer colloids and solid particles Food colloids Soft matter interfaces Biosystems Rheology Experimental methods in colloid and interface science

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