

MILTON J. ROSEN  
JOY T. KUNJAPPU

# Surfactants and Interfacial Phenomena

*Fourth Edition*



 WILEY

# Surfactants And Interfacial Phenomena

**Martin Rieger**



## **Surfactants And Interfacial Phenomena:**

Surfactants and Interfacial Phenomena Milton J. Rosen, Joy T. Kunjappu, 2012-01-20 Now in its fourth edition Surfactants and Interfacial Phenomena explains why and how surfactants operate in interfacial processes such as foaming wetting emulsion formation and detergency and shows the correlations between a surfactant's chemical structure and its action Updated and revised to include more modern information along with additional three chapters on Surfactants in Biology and Biotechnology Nanotechnology and Surfactants and Molecular Modeling with Surfactant Systems this is the premier text on the properties and applications of surfactants This book provides an easy to read user friendly resource for industrial chemists and a text for classroom use and is an unparalleled tool for understanding and applying the latest information on surfactants Problems are included at the end of each chapter to enhance the reader's understanding along with many tables of data that are not compiled elsewhere Only the minimum mathematics is used in the explanation of topics to make it easy to understand and very user friendly

Surfactants and Interfacial Phenomena, 2004 This book is the premier text on the properties and applications of surfactants The third edition is completely updated and revised including new information on gemini surfactants a new type of powerful surfactant superspreading or superwetting by

Surfactant Science and Technology Drew Myers, 2005-10-28 A general introduction to surfactants surface activity and surfactant applications Important advances in the tools available for studying the activity of surfactants has significantly increased scientific understanding of interfaces at the molecular level However there is still much to be learned In this Third Edition of the successful classic author and expert Drew Myers combines the latest information available in the field of surfactants with his original accessible text on the subject Now fully updated to reflect recent developments in working with surfactants in both model and practical systems the Third Edition of Surfactant Science and Technology provides a solid introduction to the field of surfactant science Written especially for beginners and nonspecialists who would like a practical but not necessarily comprehensive knowledge of the field this clear cogent text conveys the most fundamental and useful concepts of surfactant action and application New chapters bring readers up to date on current biological and medical applications of surfactants as well as applications in food science cosmetics and other areas In addition to new chapters Surfactant Science and Technology includes illustrative problems at the end of each chapter These problems explain concepts discussed and stimulate imaginative solutions on the part of the reader A helpful bibliography of supplementary resources for readers who desire more detail has also been included Surfactant Science and Technology Third Edition is an invaluable resource for surface and polymer chemists chemical and industrial engineers and a wide range of chemistry students

Interfacial Phenomena Clarence A. Miller, P. Neogi, 2007-10-08 Since the publication of the first edition of Interfacial Phenomena the interest in interfaces and surfactants has multiplied along with their applications Experimental and theoretical advances have provided scientists with greater insight into the structure properties and behavior of surfactant and colloid systems

Emphasizing equilibrium      **Interfacial Phenomena** Clarence A. Miller, P. Neogi, 1985-11-05      Surfactants Bob Aveyard, 2019-10-09

Surfactants today you have probably eaten some or rubbed others on your body. Plants and animals, including you and microorganisms, make them, and many everyday products, e.g., detergents, cosmetics, foodstuffs, contain them. Surfactant molecules have one part which is soluble in water and another which is not. This gives surfactant molecules two valuable properties: 1) they adsorb at surfaces, e.g., of an oil droplet in water, and 2) they stick together, aggregate in water. The aggregates, micelles, are able to dissolve materials not soluble in water alone and adsorbed surfactant layers at the surfaces of particles, or say oil droplets in water, stop the particles or drops sticking together. This is why stable emulsions, such as milk, do not separate into layers. This book treats the basic physical chemistry and physics underlying the behaviour of surfactant systems. In this book, you will first learn about some background material, including hydrophobic hydration, interfacial tension, and capillarity. Section I: Discussion of surfactant adsorption at liquid-fluid and solid-liquid interfaces is given in Section II and includes thermodynamics of adsorption, dynamic and rheological aspects of liquid interfaces, and the direct characterisation of surfactant monolayers. In Section III, a description is given of surfactant aggregation to give micelles, lyotropic liquid crystals, microemulsions, and Winsor systems. There follows a discussion of surface forces and the way they confer stability on lyophobic colloids and thin liquid films. Section IV: Various dispersions stabilised by adsorbed surfactant or polymer, including solid-in-liquid dispersions, emulsions, and foams, are considered in Section V. The wetting of solids and liquids is explored in Section VI. Like surfactants, small solid particles can adsorb at liquid-fluid interfaces, form monolayers, and stabilise emulsions and foams. Such behaviour is covered in Section VII. It is assumed the reader has a knowledge of undergraduate physical chemistry, particularly chemical thermodynamics, and of simple physics. Mathematics, elementary algebra and calculus, is kept at a level consistent with the straightforward derivation of many of the equations presented.

**Handbook Of Coating Additives** John J. Florio, Daniel J. Miller, 2004-05-26. This volume compiles a wealth of information on the composition, properties, utilization, and performance of major classes of additives, while alerting formulators to potentially damaging interactions and challenges in the selection and testing of these materials. Completely revised and updated, the Handbook of Coatings Additives, Second Edition, offers practical knowledge on the industry's most widely used compounds to accelerate and refine laboratory procedures, meet regulatory standards, and avoid hazards in the formulation of coatings additives. It is an ideal guide to making informed decisions in the development and design of effective coatings systems.

**Interfacial Phenomena and Colloid Stability** Tharwat F. Tadros, 2015-07-01. The main objective of this volume is to demonstrate the importance of the fundamental aspects of interfacial phenomena in various industrial applications. The text provides the reader with the knowledge that is essential for the composition of the complex multi-phase systems used in the above-mentioned areas of application. It should enable the physical and formulation chemist, as well as the chemical engineer, in designing the formulation on the basis of a rational approach. It will also enable the formulation scientist to better

understanding the factors responsible for producing a stable product with optimum application conditions The book should also be very useful for teaching the subject of formulation at academic institutions *Biobased Surfactants* Douglas G. Hayes, Daniel K. Solaiman, Richard D. Ashby, 2019-04-30 *Biobased Surfactants Synthesis Properties and Applications* Second Edition covers biosurfactant synthesis and applications and demonstrates how to reduce manufacturing and purification costs impurities and by products Fully updated this book covers surfactants in biomedical applications detergents personal care food pharmaceuticals cosmetics and nanotechnology It reflects on the latest developments in biobased surfactant science and provides case scenarios to guide readers in efficient and effective biobased surfactant application along with strategies for research into new applications This book is written from a biorefinery based perspective by an international team of experts and acts as a key text for researchers and practitioners involved in the synthesis utilization and development of biobased surfactants Describes new and emerging biobased surfactants and their synthesis and development Showcases an interdisciplinary approach to the topic featuring applications to chemistry biotechnology biomedicine and other areas Presents the entire lifecycle of biobased surfactants in detail **Basic Theory of Interfacial Phenomena and Colloid Stability** Tharwat F. Tadros, 2018-05-22 Volume 1 of *Formulation Science and Technology* is a survey of the theory of formulations in a variety of fields as well as their rheological characterization It offers in depth explanations for research scientists universities and industry practitioners looking for a complete understanding of how different formulations behave and how to influence their performance **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 waste 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 known scientists and engineers in this area *Metallosurfactants* Surinder K. Mehta, Ravneet Kaur, 2022-05-31 *Metallosurfactants* Provides up to date coverage of the synthesis properties and applications of metallosurfactants *Metallosurfactants From Fundamentals to Catalytic and Biomedical Applications* is a thorough introduction to amphiphilic compounds that allow to incorporate metal ions in the surfactant system This comprehensive reference and guide describes the fundamentals of metal surfactant complexes highlights recent advances in the field and explores current and future applications and research areas Gradually progressing from basic to advanced topics the authors first explain the classification and characterization of metallosurfactants before delving into more complex concepts and various catalytic sensing and biomedical applications The book begins with coverage of the synthesis of metallosurfactants

and their surface interfacial and aggregation behavior Subsequent chapters discuss applications of metallosurfactants in areas such as drug delivery molecular machines transfection nanoparticle synthesis and carbon monoxide releasing molecules CORMs Other topics include the use of metallosurfactants as catalysts in organic reactions and as anticancer and antimicrobial agents in drug delivery and formulation This unique reference Provides an overview of the structure function relationship synthesis methods and characterization of metallosurfactants Reviews current trends in metallosurfactant development and research Examines the use of metallosurfactants in a wide range of reactions including esterolytic reactions and hydrogen generation Discusses advanced applications of metallosurfactants e g as nanoreactors for nanoparticle synthesis non viral transfection vectors and sensors Metallosurfactants From Fundamentals to Catalytic and Biomedical Applications is an excellent introduction to the growing field of metallosurfactant chemistry as well as a concise highly useful reference for researchers and scientists in both academia and industry

**Surfactant Fluid Microstructure and Surfactant Aided Spreading** Xiaoxiang Zhu,1992

**Surfactant Adsorption and Surface Solubilization** Ravi Sharma,American Chemical Society. Meeting,1995 Presents recent progress in the understanding of competitive adsorption Describes adsolubilization and adsorption at the solid liquid interface Discusses kinetics of adsorption at liquid liquid interfaces Examines the structure of adsorbed layers

Analysis of Surfactants, Second Edition Thomas M. Schmitt,2001-01-23 In the tradition of the popular first edition Analysis of Surfactants Second Edition offers a comprehensive and practical account of analysis methods for determining and understanding commercially important surfactants individually and in compounds Combining a complete review of the literature with a variety of evaluation procedures and the specifications for commercial products this useful reference explores the key stages and latest developments for surfactant applications This edition has been thoroughly expanded and features new sections on capillary electrophoresis ether carboxylates and ester quats It is also more globally accessible with foreign language citations and SI units Containing over 2400 references drawings tables and equations Analysis of Surfactants Second Edition is an recommended reference for physical surface colloid and oil chemists analytical research and quality assurance chemists working in the soap and detergent pharmaceuticals and cosmetic industries regulatory and food scientists and upper level undergraduate and graduate students in these disciplines

Cationic Surfactants John Cross,Edward J. Singer,2019-05-28 This work focuses on the environmental availability and effects toxicological properties and numerous applications of cationic surfactants detailing the modern analytical processes by which this important class of compounds may be studied It discusses the types of microorganisms that are susceptible or refractory to the actions of cationic agents

**Anionic Surfactants** Christian Gloxhuber,Klaus Klunzler,1992-04-15

**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      **Surfactants in**

**Agrochemicals** Tharwat F. Tadros, 2018-03-29 This work highlights the physical chemistry of surfactant solutions detailing a fundamental method of selecting surfactants for agrochemical formulations and delineating how surfactants enhance the biological efficacy of agrochemicals The unique properties of surfactants that have a major influence on the performance of an agrochemical are summarized The book is intended for physical surface and colloid chemists biochemists microbiologists agronomists research and development personnel in the pesticide and fertilizer industries and upper level undergraduate and graduate students taking chemistry and chemical engineering courses College and university bookstores may order five or more copies at a special price which is available on request from Marcel Dekker Inc      Surfactants in Cosmetics Martin Rieger, 2017-09-29 Second Edition provides a thorough up to date treatment of the fundamental behavior of surface active agents in solutions their interaction with biological structures from proteins and membranes to the stratum corneum and epidermis and their performance in formulations such as shampoos dentifrice aerosols and skin cleansers

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