Stable Gas-in-liquid Emulsions: Production in Natural Waters and Artificial Media (Studies in Physical and Theoretical Chemistry)

D'Arrigo, Joseph S.

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**LL Leslie** 

Stable Gas in Liquid Emulsions ,1986 Stable-Nanoemulsions Joseph D'Arrigo, 2003-09-19 This title is a greatly expanded and updated second edition of the original volume published by Elsevier in 1986 New material has been integrated with the original content in an organized and comprehensive manner Five new chapters have been included which review over one and a half decades of research into lipid coated microbubbles LCM and their medical applications. The new chapters contain much experimental data which is examined in detail along with relevant current literature This current edition builds on the original work in effectively filling the gap in the market for a comprehensive account of the surfactant stabilization of coated microbubbles Presents updated results from extensive multidisciplinary research on coated microbubbles Greatly expanded and updated 2nd edition with five new chapters Fills the gap for a comprehensive and up to date account of subject Stable Nanoemulsions: Self-Assembly in Nature and Nanomedicine Joseph D'Arrigo, 2011-06 This title is a matter greatly expanded and updated second edition of the original volume published by Elsevier in 1986 New material has been integrated with the original content in an organized and comprehensive manner Five new chapters have been included which review over one and a half decades of research into lipid coated microbubbles LCM and their medical applications The new chapters contain much experimental data which is examined in detail along with relevant current literature This current edition builds on the original work in effectively filling the gap in the market for a comprehensive account of the surfactant stabilization of coated microbubbles Presents updated results from extensive multidisciplinary research on coated microbubbles Greatly expanded and updated 2nd edition with five new chapters Fills the gap for a comprehensive and up to date account of subject matter Nanocomposite Structures and Dispersions Ignac Capek, 2006-09-19 Nanocomposite Structures and Dispersions summarizes the fundamentals and mechanistic approaches in preparation and characterization of colloidal nanoparticles and dispersions providing the readers a systematic and coherent picture of the field The book serves as an introduction to the interesting field of nanoscience based on polymer and metal colloidal nanoparticles and also presents the basic knowledge of polymer colloids preparation It places a special emphasis on polymer inorganic and metal nanomaterials classified as nanoparticles nanocrystals nanorods nanotubes nanobelts etc deals with the chemistry of the reaction approaches by which polymer and metal particles are synthesized The book explores both organic synthetic and natural and inorganic materials as well as their hybrids It describes in detail terms definitions theories experiments and techniques dealing with synthesis of polymer and metal particles It also discusses a variety of synthetic approaches including emulsion miniemulsion and microemulsion approaches homogeneous and heterogeneous nucleation approaches under mild and high temperatures There is also a chapter on modification and passivation of colloidal particles This book would be of interest to chemical engineers polymer chemists organic chemists colloid chemists materials scientists and nanotechnologists Although the text discusses nanoscience and nanotechnology from the viewpoint of a chemist it would also appeal to those

just entering the field and experts seeking information in other sub fields Serves as a general introduction for those just entering the field and experts seeking information in other sub fields Variety of synthetic approaches is described including emulsion miniemulsion and microemulsion approaches hogeneous and heterogeneous nucleation approaches under mild and high temperatures Focused on both the organic synthetic and natural and inorganic materials and their hybrids

**Liposomes as Tools in Basic Research and Industry (1994)** Jean R. Philippot, Francis Schuber, 2017-11-22 This book is devoted to a broader understanding of liposomes as a versatile tool used in many domains including basic research and applied technology focusing on less common applications and recent developments Over the past few years new types of liposomes made of nonphospholipid molecules have opened new perspectives in applications These lipid vesicles already used in cosmetology are being manufactured for industrial and agricultural uses However Stealth liposomes pH sensitive liposomes and cationic liposomes have enlarged and improved the application field of liposomes in clinical research The book covers these different uses of liposomes with particular attention to new formulations and new applications

Pharmaceutical Formulation Design Usama Ahmad, Juber Akhtar, 2020-02-05 Pharmaceutical formulations have evolved from simple and traditional systems to more modern and complex novel dosage forms Formulation development is a tedious process and requires an enormous amount of effort from many different people Developing a stable novel dosage form and further targeting it to the desired site inside the body has always been a challenge The purpose of this book is to bring together scholarly articles that highlight recent developments and trends in pharmaceutical formulation science Each article has been written by authors specializing in the subject area and hailing from top institutions around the world The book has been written in a systematic and lucid style explaining all basic concepts and fundamentals in a very simple way This book aims to serve the need of all individuals involved at any level in the pharmaceutical dosage form development I sincerely hope that the book will be liked by inquisitive students and learned colleagues Electrorheological Fluids Tian Hao, 2011-08-30 An electrorheological ER suspension is made from an insulating liquid medium embodying either a semi conductive particulate material or a semi conductive liquid material usually a liquid crystal material Since its mechanical properties can be easily controlled over a wide range almost from a pure liquid to a solid the ER fluid can be used as an electric and mechanical interface in various industrial areas for example in the automotive industrial for clutch brake and damping systems and in robotic arm joints and hands In addition the ER technique can be used to fabricate advanced functional materials such as photonic crystals smart inks and heterogeneous polymer composites The major objective of Electrorheological Fluids is to present a comprehensive survey on the ER suspensions in term of screening high performance ER materials physical mechanisms of the ER effect and the applications of ER technology Applications of ER suspensions are of wide interest both in academia and industry Surveys a large body of literature on the mechanism of the ER effect and the design of industrially applicable ER devices Discusses technological problems affiliated with industrial applications

Characterization of Liquids, Nano- and Microparticulates, and Porous Bodies using Ultrasound Andrei S. Dukhin, Philip J. Goetz, 2010-06-03 Two key words define the scope of this book ultrasound and colloids Historically there has been little real communication between practitioners in these two fields Although there is a large body of literature devoted to ultrasound phenomenon in colloids there is little recognition that such phenomena may be of real importance for both the development and applications of colloid science On the other side colloid scientists have not embraced acoustics as an important tool for characterizing colloids The lack of any serious dialogue between these scientific fields is the biggest motivation behind this book Covers in detail this multidisciplinary field combining acoustics electroacoustics colloid science analytical chemistry and rheology Provides a bibliography with more than 1 000 references Presents theories and their experimental verification as well as analysis of the methods and hardware pertaining to applications such as pharmaceuticals ceramics and polymers

Interfacial Separation of Particles Shouci Lu, Robert J Pugh, Eric Forssberg, 2005-01-25 Interfacial Separation of Particles is concerned with the processing and separation of fine solid particles in liquid solutions using interfacial technology Interfacial separation has been finding wide application in many industrial fields such as pigment and filler production mineral processing environmental protection hydrometallurgy bioengineering food and beverage industry and chemical industry This book describes all interfacial separation techniques and discusses the general and specific fundamentals of the techniques The book intends to promote theoretical understanding and the more promising developments of interfacial separation technology whilst broadening the reader s background knowledge of industrial suspensions Is clearly written based on strong systematic science fundamentals Provides comprehensive coverage on particle technology mineral processing and water treatment Includes practical examples from the different industrial fields

Lipid-Based Drug Delivery Systems Bhupendra Prajapati, Jayvadan Patel, 2023-12-01 This book appraises the role of lipid based drug delivery systems LBDDSs with respect to the bioavailability and controlled delivery of complex drug molecules for improving their clinical viability. It covers the latest developments and advancements in the field of drug delivery and explores and compiles information on the current situation of lipid based formulations used as versatile excipients and all their possible routes to improve therapeutic benefits. The book discusses novel formulations such as depot formulations micro and nanoemulsions solid lipid nanoparticles SLNs nanostructured lipid carriers NLCs liposomes nanoliposomes micelles nanosuspensions lipid implants and inserts and lipid nanotubes. It presents preparation methods of LBDDSs and their physicochemical properties and portrays their various application angles and their impacts on drug conveyance frameworks when employed in vitro and in vivo. The book is beneficial for researchers working on lipid based drug formulations as well as biological and translational drug delivery. It is also a useful resource for course work of students of various academic degree programs such as pharmacy health sciences biotechnology and microbiology postgraduate and PhD students and postdoctoral fellows researching on nanomedicine based drug delivery systems.

Surface Activity in

**Drug Action**, 2005-03-01 Surface activity is present in living systems for example in body fluid or cell soup and molecules of surface active nature are crucial to living matter and its organization Surface Activity in Drug Action proposes a liquid membrane hypothesis of drug action for surface active drugs Chapters 1 7 contains an account of the hypothesis and chapter 8 contains a general account of the application of surface activity in the application of the information makes Surface Activity in Drug Action valuable reading for students and researchers interested in surface activity Is clearly written Includes contributions from prominent names in the field such as Bhise and Subrahmanyam Contains a general account of the application of surface activity in therapeutics **Structure and Dynamics of Solutions** Hideyuki Ohtaki, H. Yamatera, 2013-10-22 Recent advances in the study of structural and dynamic properties of solutions have provided a molecular picture of solute solvent interactions Although the study of thermodynamic as well as electronic properties of solutions have played a role in the development of research on the rate and mechanism of chemical reactions such macroscopic and microscopic properties are insufficient for a deeper understanding of fast chemical and biological reactions In order to fill the gap between the two extremes it is necessary to know how molecules are arranged in solution and how they change their positions in both the short and long range This book has been designed to meet these criteria It is possible to develop a sound microscopic picture for reaction dynamics in solution without molecular level knowledge of how reacting ionic or neutral species are solvated and how rapidly the molecular environment is changing with time A variety of actual examples is given as to how and when modern molecular approaches can be used to solve specific solution problems The following tools are discussed x ray and neutron diffraction EXAFS and XANES molecular dynamics and Monte Carlo computer simulations Raman infrared NMR fluorescence and photoelectron emission spectroscopic methods conductance and viscosity measurements high pressure techniques and statistical mechanics methods Static and dynamic properties of ionic solvation molecular solvation ion pair formation ligand exchange reactions and typical organic solvents are useful for bridging the gap between classical thermodynamic studies and modern single molecule studies in the gas phase The book will be of interest to solution physical inorganic analytical and structural chemists as well as to chemical kineticists

Interfacial, Stability and Rheological Study of Microbubbles Coated with a Monostearin/monopalmitin-rich Food

Emulsifier and PEG40 Stearate Yuyi Shen, 2008 Spectroscopy and Relaxation of Molecular Liquids Derek Steele, J.

Yarwood, 1991 This is the first book on the subject written by a group of internationally renowned experts whose contributions have been brought together in a unified manner The book deals with various aspects of molecular motions and molecular interactions in dense fluids in so far as they affect spectral phenomena Emphasis is placed on the experimental deduction of this information Leading experts address the use of infrared and Raman vibrational spectroscopy far infrared spectroscopy nuclear magnetic resonance light scattering neutron scattering molecular dynamics collision induced spectra and molecular modelling in this context A large number of examples are given which are well supported by figures to clarify

the methods and to demonstrate the degree of success or failure of various techniques. The bibliography is extensive symbols are unified throughout and keyword and compound indices are included The book should be of interest to those entering this multidisciplinary field and also to active researchers seeking a primer covering the breadth of the subject Morphology and Transport Properties of Lipid/emulsifier Monolayer-coated Microbubbles Mark Andrew Borden, 2003 Water Research ,1988 Electron and Proton Transfer in Chemistry and Biology Achim Müller, 1992 Various aspects of electron and proton transfer in chemistry and biology are described in this volume. The joint presentation was chosen for two reasons Rapid electron and proton transfer govern cellular energetics in both the most primitive and higher organisms with photosynthetic and heterotrophic lifestyles Further biology has become the area where the various disciplines of science which were previously diversified are once again converging The book begins with a survey of physicochemical principles of electron transfer in the gas and solid phase with thermodynamic and photochemical driving force Inner and outer sphere mechanisms and the coupling of electron transfer to nuclear rearrangements are reviewed These principles are applied to construct artificial photosynthesis leading to biological electron transfer involving proteins with transition metal and or organic redox centres The tuning of the free energy profile on the reaction trajectory through the protein by single amino acids or by the larger ensemble that determines the electrostatic properties of the reaction path is one major issue Another one is the transformation of one electron to paired electron steps with protection against hazardous radical intermediates The diversity of electron transport systems is represented in various chapters with emphasis on photosynthesis respiration and nitrogenases The book will be of interest to scientists in chemistry physics and the life Chemical Energy from Natural and Synthetic Gas Yatish T. Shah, 2017-03-16 Commercial development of sciences energy from renewables and nuclear is critical to long term industry and environmental goals However it will take time for them to economically compete with existing fossil fuel energy resources and their infrastructures Gas fuels play an important role during and beyond this transition away from fossil fuel dominance to a balanced approach to fossil nuclear and renewable energies Chemical Energy from Natural and Synthetic Gas illustrates this point by examining the many roles of natural and synthetic gas in the energy and fuel industry addressing it as both a transition and end game fuel The book describes various types of gaseous fuels and how are they are recovered purified and converted to liquid fuels and electricity generation and used for other static and mobile applications It emphasizes methane syngas and hydrogen as fuels although other volatile hydrocarbons are considered It also covers storage and transportation infrastructure for natural gas and hydrogen and methods and processes for cleaning and reforming synthetic gas The book also deals applications such as the use of natural gas in power production in power plants engines turbines and vehicle needs Presents a unified and collective look at gas in the energy and fuel industry addressing it as both a transition and end game fuel Emphasizes methane syngas and hydrogen as fuels Covers gas storage and transport infrastructure Discusses thermal gasification gas reforming

processing purification and upgrading Describes biogas and bio hydrogen production Deals with the use of natural gas in power production in power plants engines turbines and vehicle needs Semiconductor Electrodes Harry O. Finklea, 1988 Semiconductors have been studied as electrodes in electrochemical systems since the mid 1950 s However it was not until the 1970 s that the search for alternative energy sources especially solar energy led to an enormous expansion in semiconductor electrode research One attractive option for solar energy conversion is the semiconductor liquid junction solar cell which can be designed to produce either electrical power or fuel such as hydrogen Consequently the number of papers published concerning semiconductor electrodes has rapidly increased Previous books have principally focused on the underlying theory largely from solid state physics and principles of operation of all semiconductor electrodes It therefore seemed both useful and appropriate to review the field with the intention of collating information for each semiconductor or family of semiconductors with contributions from authors who are all recognized experts in their field Each chapter is devoted to critically assessing the recent literature on a particular semiconductor or family of semiconductors Colloid and Surface Engineering Richard A. Williams, 1992 This volume originated from the increasingly interdisciplinary nature of engineering science which traditionally has considered the area known as colloid and surface science to be a specialist subdivision of physical chemistry In practice surface phenomena infiltrate many areas of diverse technological interest involving product development manufacturing and biologic and environmental processes This first volume considers applications in the process industries and deliberately involves a wide range of process technologued udner three main hedings The scope of the subject material is such that it is not intended necessarily to present a definitive view of the state of the art in each of the respective topics but to represent a stimulating introduction to the principles of treating colloidal materials

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