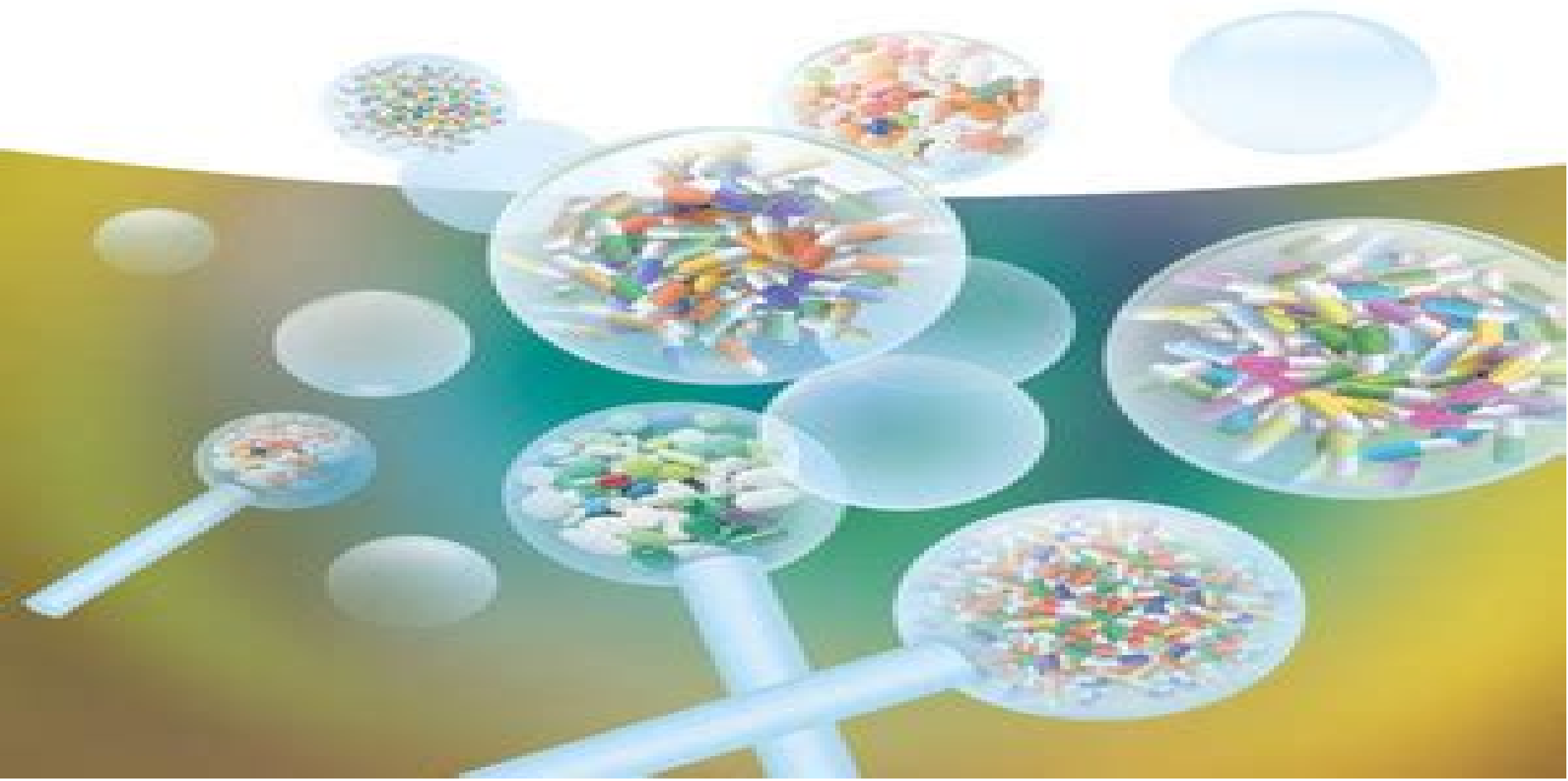


Edited by Tharwat Tadros

# Emulsion Formation and Stability



# 1 Emulsion Formation Stability And Rheology Wiley Vch

**Bhupinder Singh**



## **1 Emulsion Formation Stability And Rheology Wiley Vch:**

**Emulsion Formation and Stability** Tharwat F. Tadros, 2013-06-04 The importance of emulsification techniques their use in the production of nanoparticles for biomedical applications as well as application of rheological techniques for studying the interaction between the emulsion droplets is gathered in this reference work Written by some of the top scientists within their respective fields this book covers such topics as emulsions nano emulsions nano dispersions and novel techniques for their investigation It also considers the fundamental approach in areas such as controlled release drug delivery and various applications of nanotechnology

**Emulsions** Tharwat F. Tadros, 2016-03-21 Chapter 1 General Introduction Definition of emulsions and the role of the emulsifier Classification based on the nature of the emulsifier Classification based on the structure of the system General instability problems with emulsions creaming sedimentation flocculation Ostwald ripening coalescence and phase inversion Importance of emulsions in various industrial applications Chapter 2 Thermodynamics of Emulsion Formation and Breakdown Application of the second law of thermodynamics for emulsion formation Balance of energy and entropy and non spontaneous formation of emulsions Breakdown of the emulsion by flocculation and coalescence in the absence of an emulsifier Role of the emulsifier in preventing flocculation and coalescence by creating an energy barrier resulting from the repulsive energies between the droplets Chapter 3 Interaction Forces between Emulsion Droplets Van der Waals attraction and its dependence on droplet size Hamaker constant and separation distance between the droplets Electrostatic repulsion resulting from the presence of electrical double layers and its dependence on surface or zeta potential and electrolyte concentration and valency Combination of the van der Waals attraction with double layer repulsion and the theory of colloid stability Steric repulsion resulting from the presence of adsorbed non ionic surfactants and polymers Combination of van der Waals attraction with steric repulsion and the theory of steric stabilisation Chapter 4 Adsorption of Surfactants at the Oil Water Interface Thermodynamic analysis of surfactant adsorption and the Gibbs adsorption isotherm Calculation of the amount of surfactant adsorption and area per surfactant molecule at the interface Experimental techniques for measuring the interfacial tension Chapter 5 Mechanism of Emulsification and the Role of the Emulsifier Description of the factors responsible for droplet deformation and its break up Role of surfactant in preventing coalescence during emulsification Definition of the Gibbs dilational elasticity and the Marangoni effect in preventing coalescence Chapter 6 Methods of Emulsification Pipe flow static mixers and high speed stirrers rotor stator mixer Laminar and turbulent flow Membrane emulsification High pressure homogenisers and ultrasonic methods Chapter 7 Selection of Emulsifiers The hydrophilic lipophilic balance HLB and its application in surfactant selection Calculation of HLB numbers and the effect of the nature of the oil phase The phase inversion temperature PIT method for emulsifier selection The cohesive energy ratio method for emulsifier selection Chapter 8 Creaming Sedimentation of Emulsions and its prevention Driving force for creaming sedimentation effect of gravity droplet size and density difference

between the oil and continuous phase Calculation of the rate of creaming sedimentation in dilute emulsions Influence of increase of the volume fraction of the disperse phase on the rate of creaming sedimentation Reduction of creaming sedimentation Balance of the density of the two phases reduction of droplet size and effect of addition of thickeners Chapter 9 Flocculation of Emulsions and its Prevention Factors affecting flocculation Calculation of fast and slow flocculation rate Definition of stability ratio and its dependence on electrolyte concentration and valency Definition of the critical coagulation concentration and its dependence on electrolyte valency Reduction of flocculation by enhancing the repulsive forces Chapter 10 Ostwald Ripening and its Reduction Factors responsible for Ostwald ripening difference in solubility between small and large droplets and the Kelvin equation Calculation of the rate of Ostwald ripening Reduction of Ostwald ripening by incorporation of a small amount of highly insoluble oil Reduction of Ostwald ripening by the use of strongly adsorbed polymeric surfactant and enhancement of the Gibbs elasticity Chapter 11 Emulsion Coalescence and its Prevention Driving force for emulsion coalescence Thinning and disruption of the liquid film between the droplets The concept of disjoining pressure for prevention of coalescence Methods for reduction or elimination of coalescence Use of mixed surfactant films use of lamellar liquid crystalline phases and use of polymeric surfactants Chapter 12 Phase Inversion and its Prevention Distinction between catastrophic and transient phase inversion Influence of the disperse volume fraction and surfactant HLB number Explanation of the factors responsible for phase inversion Chapter 13 Characterisation of Emulsions Measurement of droplet size distribution Optical microscopy and image analysis Phase contrast and polarising microscopy Diffraction methods Confocal laser microscopy Back scattering methods Chapter 14 Industrial Application of Emulsions 14 1 Application in Pharmacy 14 2 Application in Cosmetics 14 3 Application in Agrochemicals 14 4 Application in Paints 14 5 Application in the Oil Industry

**Basic Principles of Formulation Types** Tharwat F. Tadros, 2018-05-22 Volume 2 of Formulation Science and Technology is a survey of the different types of formulations used in the chemical industry and offers numerous real world examples of foams gels latexes etc It offers in depth explanations for research scientists universities and industry practitioners looking for a complete understanding of which type formulation works best for a certain application and why

**Industrial Applications I** Tharwat F. Tadros, 2017-12-18 Volume 3 of the Handbook of Colloid and Interface Science is a survey into the applications of colloids in a variety of fields based on theories presented in Volumes 1 and 2 The Handbook provides a complete understanding of how colloids and interfaces can be applied in materials science chemical engineering and colloidal science It is ideally suited as reference work for research scientists universities and industries

**Basic Principles of Dispersions** Tharwat F. Tadros, 2017-12-04 Volume 2 of the Handbook of Colloid and Interface Science is a survey into the theory of dispersions in a variety of fields as well as characterization by rheology It is an ideal reference work for research scientists universities and industry practitioners looking for a complete understanding of how colloids and interfaces behave in the areas of materials science chemical engineering and colloidal science

**Formulations** Tharwat F.

Tadros, 2016-09-12 Formulations starts with a general introduction explaining interaction forces between particles and droplets self assembly systems polymeric surfactants and nanoemulsions The second part covers the industrial examples ranging from foams soaps over to hair care sunscreen and make up products Combines information needed by formulation chemists as well as researchers in the cosmetic industry due the increasing number of products      **Integrated Chemical Processes in Liquid Multiphase Systems** Matthias Kraume, Sabine Enders, Anja Drews, Reinhard Schomäcker, Sebastian Engell, Kai Sundmacher, 2022-06-21 Liquid multiphase processes represent a promising option for realizing novel efficient and sustainable production processes as required for the transformation towards climate neutral manufacturing processes This volume presents the results obtained over twelve years in the DFG funded collaborative project Transregio 63 Integrated Chemical Processes in Liquid Multiphase Systems In an interdisciplinary approach to the design and operation of such processes essential principles of Green Chemistry are realized such as using long chain olefins as model representatives of renewable raw materials highly efficient catalysts and green solvents linked with process optimization to improve energy and material efficiency Experts from different fields addressed all steps of the development process from the description of the reactions on the molecular level via thermodynamics and the design of efficient separation processes to the operation of entire miniplants for liquid multiphase production processes Thus the complete development chain from the first reaction related investigations in the laboratory to the technological realization in miniplants with model based control is demonstrated Numerous methodological innovations are proposed and validated using several innovative phase systems thermomorphic multiphase systems microemulsion systems Pickering emulsions and homogeneously catalyzed reactions Engineers and chemists from the chemical industry as well as advanced students and researchers will get valuable insights into the physico chemical phenomena in chemical multiphase processes and benefit from recommendations concerning methods for the selection of phase systems and rapid model based process development      *Advances in Rheology of Materials* Ashim Dutta, Hafiz Muhammad Ali, 2023-05-31 In modern times rheology has emerged as a powerful tool for materials scientists to explore the properties of soft matter or complex fluids including such diverse materials as food cosmetics polymers lubricants drilling fluids and biological systems Rheology parameters such as shear modulus G storage modulus G and viscosity together with microscopic imaging provide considerable insight into the structure property relationship in these materials This in turn helps design materials with properties tailored to multiple applications This book is a compilation of works by experts in their respective areas of specialization and covers a wide range of applications The book will be useful both to experts in this area of research and to newcomers from a range of specializations      Science and Technology Behind Nanoemulsions Selcan Karakus, 2018-08-22 This book covers new micro nanoemulsion systems in technology that has developed our knowledge of emulsion stability The emulsion system is a major phenomenon in well qualified products and has extensive usages in cosmetic industry food industry oil recovery and mineral processes In this

book readers will find recent studies applications and new technological developments on fundamental properties of emulsion systems      **Pharmaceutical, Cosmetic and Personal Care Formulations** Tharwat F. Tadros,2018-05-22

Volume 3 of Formulation Science and Technology is a survey of the applications of formulations in a variety of fields based on the theories presented in Volumes 1 and 2 It offers in depth explanations and a wealth of real world examples for research scientists universities and industry practitioners in the fields of Pharmaceuticals Cosmetics and Personal Care      Flow

Assurance Solids in Oil and Gas Production Jon Gudmundsson,2017-09-13 The precipitation and deposition of solids are a major challenge in the production of oil and gas Flow assurance solids are formed because of unavoidable changes in temperature pressure and composition of the oil gas water flowstream from reservoir conditions to processing conditions The advent of subsea production and the increased exploitation of heavy crudes have made flow assurance issues dominant in ensuring efficient and safe exploitation of hydrocarbon assets Five troublesome flow assurance solids are described in the book asphaltene paraffin wax natural gas hydrate naphthenate and inorganic scale These big five solids are presented in stand alone chapters Each chapter is designed to be readable without clutter Derivations of equations and descriptions of supporting details are given in several appendices The book is intended for professional engineers and natural scientist working in E P companies engineering companies service companies and specialized companies An understanding of the big five solids is required throughout the lifetime of oil and gas assets from early development to abandonment The technical safety and environmental risks associated with deposition problems in near wellbore formations production tubing wellhead equipment flowlines and processing facilities are relevant for decisions in the oil and gas industry and in outside regulatory and financial entities      **Introduction to Cosmetic Formulation and Technology** Gabriella Baki,2022-12-12

Introduction to Cosmetic Formulation and Technology An accessible and practical review of cosmetics and OTC drug cosmetic products In the newly revised second edition of Introduction to Cosmetic Formulation and Technology veteran educator and researcher Dr Gabriella Baki delivers a comprehensive discussion of cosmetics and personal care products including coverage of basic concepts ingredient selection formulation technology and testing The book offers a clear and easy to understand review of cosmetics and over the counter OTC drug cosmetic products available in the United States In this latest edition the author expands on general concepts and adds brand new chapters on the basics of cosmetics testing ingredients and skin lightening products Each chapter includes a summary of common abbreviations with questions provided online alongside a solutions manual for instructors Readers will also find A thorough introduction to the basic definitions claims and classifications of cosmetics and OTC drug cosmetic products Comprehensive explorations of the current rules and regulations for cosmetics and OTC drug cosmetic products in the United States and European Union Detailed review of cosmetic ingredients functions and typical uses both in a dedicated a chapter and included within various others Practical coverage of good manufacturing practices for cosmetics including documentation buildings and facilities equipment and personnel Fulsome review of a

variety of skin and hair care products color cosmetics and other personal care products Perfect for undergraduate and graduate students studying cosmetic science in chemistry chemical engineering pharmaceutical biomedical and biology departments Introduction to Cosmetic Formulation and Technology will also benefit cosmetic chemists cosmetic product formulators cosmetic scientists quality control managers cosmetic testing specialists and technicians *Unfolding the Biopolymer Landscape* Viness Pillay,Yahya E. Choonara,Pradeep Kumar,2016-01-25 The need for the development of biomaterials as scaffold for tissue regeneration is driven by the increasing demands for materials that mimic functions of extracellular matrices of body tissues Unfolding the Biopolymer Landscape provides a unique account of biopolymeric interventions inherent to biotechnological applications soft tissue engineering ophthalmic drug delivery biotextiles environmentally responsive systems neurotherapeutics and emulsions based formulations for food and pharmaceutical applications Chapters in this volume also cover biomedical applications and implications of cationic polymers collagen based substrates multifunctional polymers shape memory biopolymers hybrid semisynthetic biomaterials microbial exopolysaccharides biomaterials mimicking the extracellular microenvironment derivatized polysaccharides and metallic biomaterials Each chapter is distinctly written by experts in the respective fields and emphasis is given on the mechanistic profile of the performance of biopolymers and biomedical applications This book provides both basic and advanced biopolymer information for scientific experts and early career researchers in the field of drug delivery tissue engineering nanomedicine food technology peptide science biomaterial design and nutrition This volume provides a unique account of biopolymeric interventions inherent to biotechnological applications soft tissue engineering ophthalmic drug delivery biotextiles environmentally responsive systems neurotherapeutics and emulsions based formulations for food and pharmaceutical applications **Microencapsulation and Microspheres for Food Applications** Leonard M.C. Sagis,2015-08-10 Microencapsulation and Microspheres for Food Applications is a solid reflection on the latest developments challenges and opportunities in this highly expanding field This reference examines the various types of microspheres and microcapsules essential to those who need to develop stable and impermeable products at high acidic conditions It s also important for the novel design of slow releasing active compound capsules Each chapter provides an in depth account of controlled release technologies evidence based abstracts descriptions of chemical and physical principals and key relevant facts relating to food applications Written in an accessible manner the book is a must have resource for scientists researchers and engineers Discusses the most current encapsulation technology applied in the food industry including radiography computed tomography magnetic resonance imaging and dynamic NMR microscopy Presents the use of microsphere immunoassay for mycotoxins detection Covers a broad range of applications of microcapsules and microspheres including food shelf life pesticides for crop protection and nanoencapsulated bacteriophage for food safety **Formulation Product Technology** Dmitry Yu. Murzin,2023-12-18 Formulation Product Technology focuses on materials chemistry and introduces

industrial manufacturing technologies for different product types Besides addressing the fundamentals and the corresponding unit operations the author presents a full cycle of product development for the materials that are used in everyday life Various performance and personal chemicals such as paints coatings dyes laundry detergents glass and concrete pesticides diapers skin care and hair care products etc are discussed starting from product selection and up to setup of manufacturing process Additional new products discussed dyes for textiles decorative products hand sanitizers deodorants pesticides Easy to understand introduction to formulation product design Covers all main product types of modern chemical industry      **NanoNutraceuticals** Bhupinder Singh,2018-10-03 This book will be a comprehensive account of the various facets of nutraceuticals domain The peruser of this book will find details on various nanotech approaches to nutraceuticals prebiotics and probiotics along with their specific applications      *Micro- and Nano-containers for Smart Applications* Jyotishkumar Parameswaranpillai,Nisa V. Salim,Harikrishnan Pulikkalparambil,Sanjay Mavinkere Rangappa,Ing. habil Suchart Siengchin,2022-02-11 This book comprehensively summarizes the recent achievements and trends in encapsulation of micro and nanocontainers for applications in smart materials It covers the fundamentals of processing and techniques for encapsulation with emphasis on preparation properties application and future prospects of encapsulation process for smart applications in pharmaceuticals textiles biomedical food packaging composites friction wear phase change materials and coatings Academics researchers scientists engineers and students in the field of smart materials will benefit from this book      Emerging Nanotechnologies in Food Science Rosa Busquets,2017-02-28 Emerging Nanotechnologies in Food Science presents the current knowledge and latest developments in food nanotechnology taking a multidisciplinary approach to provide a broad and comprehensive understanding of the field Food nanotechnology is a newly emergent discipline that is fast growing and evolving The discipline continues to benefit from advances in materials and food sciences and has enormous scientific and economic potential The book presents nano ingredients and engineered nanoparticles developed to produce technologically improved food from both food science and engineering perspectives In addition subsequent chapters offer a review of recent outstanding inventions in food nanotechnology and legal considerations for the protection of intellectual property in this area With its multidisciplinary team of contributors this book serves as a reference book for the ever growing food nanotechnology science Presents a multidisciplinary approach and broad perspective on nanotechnology applications in food science Contains contributors from various fields including chapters from a geochemist a tissue engineer and a microbiologist as well as several from food scientists Offers a range of insights relevant to different backgrounds Provides case studies in each chapter that demonstrate how nanotechnology is being used in today's food sector

**Advances in Smart Nanomaterials and their Applications** Azamal Husen,Khwaja Salahuddin Siddiqi,2023-03-25 Advances in Smart Nanomaterials and their Applications brings together the latest advances and novel methods in the preparation of smart nanomaterials for cutting edge applications The book covers fundamental concepts of nanomaterials



including fabrication methods processing application areas specific applications of smart nanomaterials across a range of areas such as biomedicine pharmaceuticals food science and packaging sensing cosmetics and dermatology gas oil energy wastewater and environment textiles agriculture and forestry sectors In each case possible challenges recent trends and potential future developments are addressed in detail The book also discusses various considerations for the utilization of smart nanomaterials including environmental safety and legal requirements The book is suitable for graduate students as a textbook and simultaneously be useful for both novices and experienced scientists or researchers medical biologists nanobiotechnologists nanoengineers agricultural scientists and general biologists as a reference book as well as inspires some industrialists and policy makers involved in the investigation of smart nanomaterials Introduces fundamentals of smart nanomaterials including theory fabrication methods processing and properties Opens the door to a broad range of multifaceted applications across agriculture food science biomedicine energy and other areas Considers environmental safety risk assessment legal requirements and sustainability issues

Nanotechnology for the Preparation of Cosmetics using Plant-Based Extracts Siti Hamidah Mohd Setapar,Akil Ahmad,Mohammad Jawaid,2022-02-18 Cosmetic manufacturers use nanoscale size ingredients to provide better UV protection deeper skin penetration long lasting effects increased color and finish quality This approach enables the forming of nanoscale cosmetic ingredients which can possess active components readily absorbed into the skin repair damage easily and promote improved product outcomes Nanotechnology for the Preparation of Cosmetics using Plant Based Extracts explores the various applications of nanotechnology in the cosmetic industry Techniques for the development of cosmetic are a topic of increasing interest with widespread opportunities for potential applications in a broad range of industrial applications The book covers a variety of techniques and processes focusing on its potential applications in the field of skincare and makeup cosmetics The book will cover not only conventional processes but also innovative and efficient techniques for the preparation of cosmetics exhibiting unique applications in the field Nanotechnology for the Preparation of Cosmetics using Plant Based Extracts is an important reference source for materials scientists engineers and pharmaceutical scientists who want to learn more about the use of cosmetics prepared through nanotechnology to achieve the materials characteristics and enhancements in the mechanism and properties of makeup and skincare Presents techniques for the design and manufacture of high performance skincare products using nanotechnology Demonstrates systematic approaches and investigations for the design synthesis characterization and applications of various plant based extracts in order to make them effective ingredients for cosmetics creation Assesses the major challenges of using plant based materials in the manufacture of cosmetic products

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