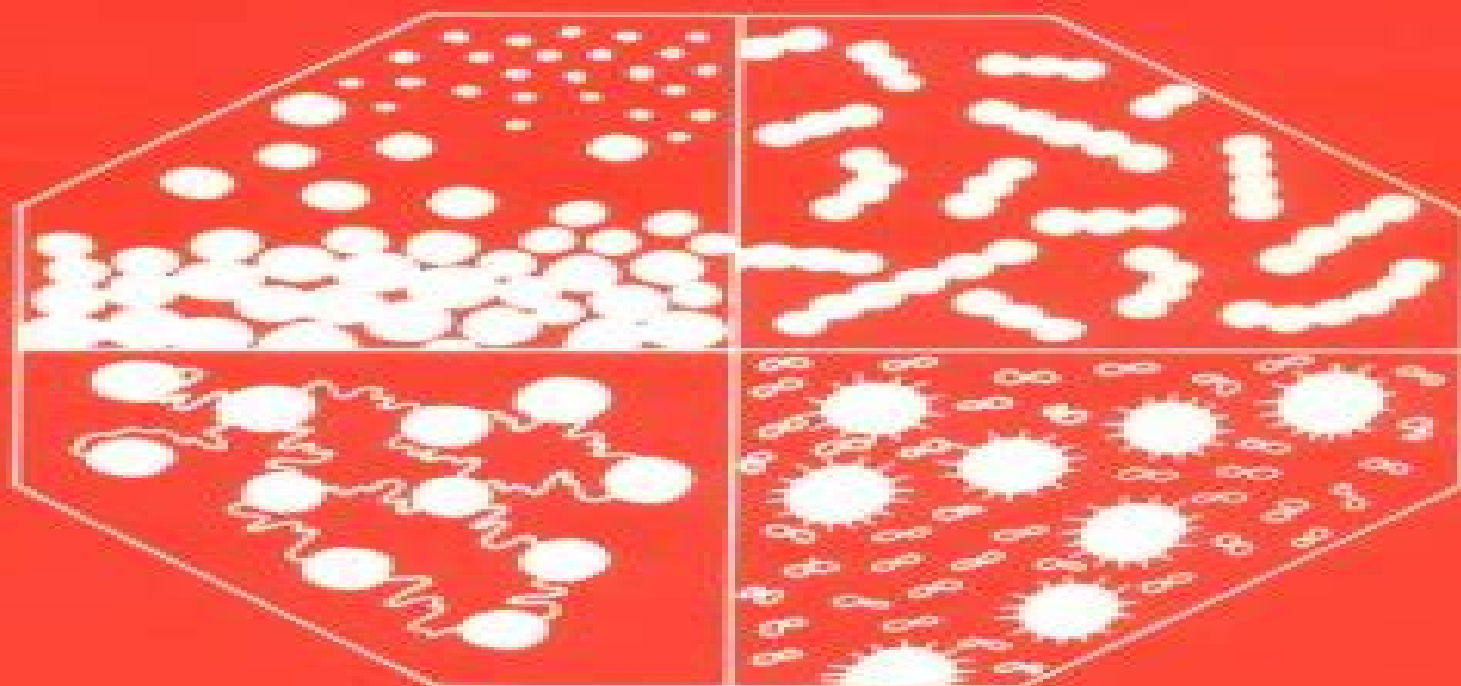


SOLID/LIQUID DISPERSIONS



Edited by Th.F. TADROS

Solid Liquid Dispersions

Tharwat F. Tadros

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Solid Liquid Dispersions:

Solid-Liquid Dispersions T. F. Tadros, 1987-02-11 Solid liquid dispersions also known as suspensions are widely used in industry Both aqueous and non aqueous suspensions are used in paints dyestuffs inks cosmetics detergents and pharmaceuticals More recently non aqueous dispersions of magnetic oxides have attracted considerable attention as a result of their applications in the electronics industry FROM THE PREFACE Solid liquid dispersions both of the aqueous and nonaqueous type find applications in many industrial preparations of which the following may be worth mentioning paints dye stuffs pigments paper coatings printing inks cosmetics ceramics pharmaceuticals and pesticides More recently nonaqueous dispersions of magnetic oxides have attracted considerable attention because of their applications in the electronic industry The control of the properties of such systems is crucial both in their preparation their long term stability and in their subsequent application Some of the parameters which control such properties are particle size and shape distribution interparticle interaction forces and volume fraction of the dispersed phase Understanding the basic principles involved in the preparation of solid liquid dispersions and control of the interparticle interacting forces is therefore crucial both from a fundamental and applied point of view Owing to the widespread use of solid liquid dispersions in many industrial applications a residential school was held at Bristol University during 1986 to fulfil some of the above requirements The scientific content of the course was organized by the Editor and the residential school was sponsored by the Royal Society of Chemistry of Great Britain This residential school was held to lay the basis of understanding of the colloid and interface science phenomena involved in the preparation of solid liquid dispersions their stabilization and destabilization and control of their bulk properties The lecture contents were planned to cover a wide range of topics and these form the basis of the present book which would be useful to graduate research and industrial chemists The book starts with an Introductory Chapter giving an outline of the contents of the book and the various themes that are covered Chapter 2 deals with the preparation of solid liquid dispersions with some emphasis on the stabilization of such dispersions Both aqueous and nonaqueous dispersions are discussed and the two main procedures used namely condensation and dispersion methods are described This is followed by two chapters 3 and 4 on the structure of the solid liquid interface and the electrical double layer and stability of dispersions in which double layer repulsion and van der Waals attraction are the main contributions A section is also devoted in Chapter 4 on the kinetic aspects of coagulation and the experimental methods used for determination of stability Chapters 5 and 6 deal with the adsorption of surfactants and macromolecules which are key factors in understanding how dispersions can be stabilized or flocculated by such molecules With polymers particular attention was given to the conformation of the molecule at the solid liquid interface The stability of solid liquid dispersions in the presence of polymers usually referred to as steric stabilization is described in Chapter 7 This is then followed by a chapter on flocculation by polymers and polyelectrolytes Chapter 8 The properties of concentrated dispersions in particular their

structure are given in Chapter 9 in which an attempt is also made to relate the microscopic to the macroscopic properties Chapter 10 deals with the rheology of colloid dispersions and the experimental techniques used for measurement of the viscoelastic properties The following chapter 11 deals with settling of suspensions and prevention of formation of dilatant sediments The theories of settling of dilute and concentrated suspensions are described and this is followed by the various procedures used for prevention of formation of dilatant sediments Chapter 12 deals with a specific topic namely the application of spectroscopic pKa probes for the determination of interfacial electrostatic potential The last Chapter 13 deals with the practical methods that may be applied for assessment of the properties of suspension Thus the book which has been produced as a result of the residential school on solid liquid dispersions is by no means a comprehensive text on the subject The topics have been carefully chosen to cover the basic principles involved in the preparation of solid liquid dispersions and the control of their properties The book should therefore provide a useful text for readers involved with solid liquid dispersions and their applications Several useful references are given which should be consulted for more detailed information would like to thank all the contributors for their care and cooperation in preparing the various chapters which made my editing job fairly easy I would like to thank the Royal Society of Chemistry in particular Miss Lorraine Hart for organizing the administrative side of the Course and her help during the residential school I would also like to thank Bristol University for hosting the residential school and Mrs Jean Proctor Bristol University and Mrs Irene Gallacher ICI for their help in the organization of the residential school at Bristol Last but not least I would like to thank my wife and children for coping with me during several weekends to write my contributions and editing the text From the Reviews Each chapter is written by a well known authority in the field and the exposition of the subject matter is particularly clear It is a pleasure to see a book so well written and produced and I am sure that it will be an invaluable addition to the reading lists for graduate research and industrial chemists P A Sewell CHEMISTRY IN BRITAIN *Solid - Liquid Dispersions* Bohuslav Dobias, Xueping Qiu, Wolfgang von Rybinski, 1999-03-04 Reviews a range of fundamental concepts recent developments and practical applications in dispersion theory along with relevant insights from colloidal and interfacial science The text contains new work on the stabilization of solid liquid dispersions It focuses on topics as varied as electrostatics hydrodynamics and rheology **The Preparation of Dispersions in Liquids** H.N. Stein, 2020-07-24 This work details the preparation of dispersions in liquids It sets out to bridge the gap in information for the chemist who is not applications oriented and the chemical engineer who needs to solve problems in the field based on theoretical methods of dispersions of solids liquids and gases Insights are provided into many topics including the transportation and handling of finely divided solids or highly viscous liquids the reactions between reactants dissolved in immiscible phases the formation of porous materials and filtration 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

Characterization of Liquids, Dispersions, Emulsions, and Porous Materials Using Ultrasound Andrei S. Dukhin, Philip J. Goetz, 2017-08-08 Characterization of Liquids Dispersions Emulsions and Porous Materials Using Ultrasound Third Edition presents a scientific background for novel methods of characterizing homogeneous and heterogeneous liquids dispersions emulsions and gels as well as porous materials Homogeneous liquids are characterized in rheological terms whereas particle size distribution and zeta potential are parameters of heterogeneous liquids For porous materials porosity pore size and zeta potential are output characteristics These methods are based on ultrasound which opens an opportunity for simplifying the sample preparation by eliminating dilution This in turn makes measurements faster easier precise suitable for accurate quality control PAT and formulation of complex systems This book provides theoretical background of acoustics rheology colloid science electrochemistry and other relevant scientific fields describing principles of existing instrumentation and in particular commercially available instruments Finally the book features an extensive list of existing applications Presents a theoretical multi disciplinary background of several new ultrasound analytical techniques in one place Validates the theoretical basis of several new analytical techniques Compares the efficiency and applications of various ultrasound techniques Lists many ultrasound applications in colloid chemistry Contains an extensive bibliography on this multidisciplinary topic

Dispersion of Powders Tharwat F. Tadros, 2012-04-24 Teaching the fundamental knowledge required for successful dispersion of powders in a liquid this book covers a host of topics from recent advances to industrial applications In 15 chapters it supports formulation chemists in preparing a suspension in a more rational way by applying the principles of colloid and interface science while at the same time enabling the research scientist to discover new methods for preparing stable suspensions Essential reading for those working in the pharmaceutical cosmetic food paint ceramic and agricultural industries

Handbook of Food Process Design Jasim Ahmed, Mohammad Shafiur Rahman, 2012-02-27 In the 21st Century processing food is no longer a simple or straightforward matter Ongoing advances in manufacturing have placed new demands on the design and methodology of food processes A highly interdisciplinary science food process design draws upon the principles of chemical and mechanical engineering microbiology chemistry nutrition and economics and is of central importance to the food industry Process design is the core of food engineering and is concerned at its root with taking new concepts in food design and developing them through production and eventual consumption Handbook of Food Process Design is a major new 2 volume work aimed at food engineers and the wider food industry Comprising 46 original chapters written by a host of leading international food scientists engineers academics and systems specialists the book has been developed to be the most comprehensive guide to food process design ever published Starting from first principles the book provides a complete account of food process designs including heating and cooling pasteurization sterilization refrigeration

drying crystallization extrusion and separation Mechanical operations including mixing agitation size reduction extraction and leaching processes are fully documented Novel process designs such as irradiation high pressure processing ultrasound ohmic heating and pulsed UV light are also presented Food packaging processes are considered and chapters on food quality safety and commercial imperatives portray the role process design in the broader context of food production and consumption

Dispersions Erik Kissa, 2017-11-22 Explaining principles essential for the interpretation of data and understanding the real meaning of the result this work describes various methods and techniques used to characterize dispersions and measure their physical and chemical properties It describes a variety of dispersions containing particles ranging from submicron sizes to aggregates and from hard particles to polymer latices

Formulation of Disperse Systems Tharwat F. Tadros, 2014-05-14 This book presents comprehensively the science and technology behind the formulation of disperse systems like emulsions suspensions foams and others Starting with a general introduction the book covers a broad range of topics like the role of different classes of surfactants stability of disperse systems formulation of different dispersions evaluation of formulations and many more Many examples are included too Written by the experienced author and editor Tharwat Tadros this book is indispensable for every scientist working in the field

Handbook of Surface and Colloid Chemistry K. S. Birdi, 2008-11-20 The third edition of this bestseller covers the latest advancements in this rapidly growing field Focusing on analyses and critical evaluation of the subject this new edition reviews the most up to date research available in the current literature International contributors offer their perspectives on various topics including micellar systems mi

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