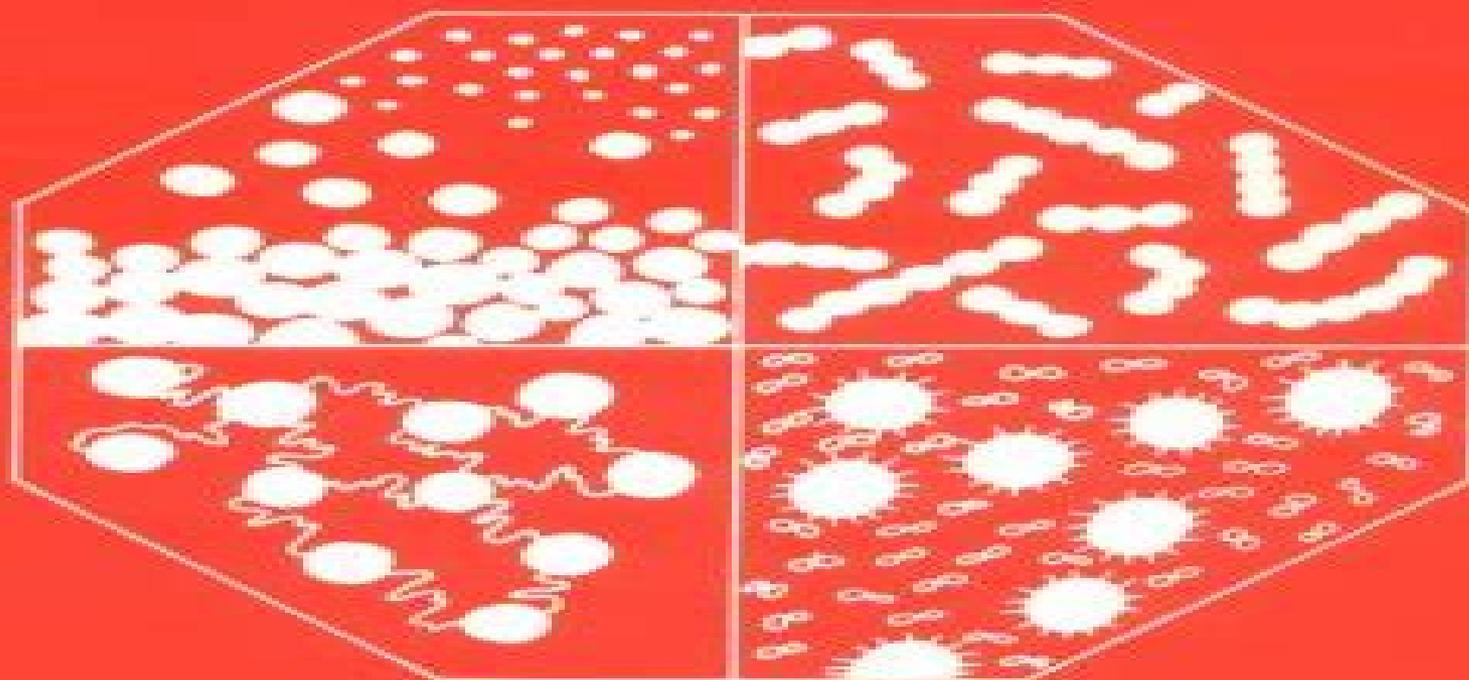


SOLID/LIQUID DISPERSIONS



Edited by Th. E. TADROS

Solid Liquid Dispersions

Scott C. Dulebohn



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, 1995-11-08 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 *An Introduction to Theoretical and Applied Colloid Chemistry, "the World of Neglected Dimensions,"* Carl Wilhelm Wolfgang Ostwald, 1922 **An Introduction to theoretical and applied colloid chemistry** Carl Wilhelm

Wolfgang Ostwald,1917 Multiphase Particulate Systems in Turbulent Flows Wioletta Podgorska,2019-09-17 Multiphase Particulate Systems in Turbulent Flows Fluid Liquid and Solid Liquid Dispersions provides methods necessary to analyze complex particulate systems and related phenomena including physical chemical and mathematical description of fundamental processes influencing crystal size and shape suspension rheology interfacial area of drops and bubbles in extractors and bubble columns Examples of mathematical model formulation for different processes taking place in such systems is shown Discussing connections between turbulent mixing mechanisms and precipitation it discusses influence of fine scale structure of turbulence including its intermittent character on breakage of drops bubbles cells plant cell aggregates An important aspect of the mathematical modeling presented in the book is multi fractal taking into account the influence of internal intermittency on different phenomena Key Features Provides detailed descriptions of dispersion processes in turbulent flow interactions between dispersed entities and continuous phase in a single volume Includes simulation models and validation experiments for liquid liquid gas liquid and solid liquid dispersions in turbulent flows Helps reader learn formulation of mathematical models of breakage or aggregation processes using multifractal theory Explains how to solve different forms of population balance equations Presents a combination of theoretical and engineering approaches to particulate systems along with discussion of related diversity with exercises and case studies An Introduction to Theoretical and Applied Colloid Chemistry, "the World of Neglected Dimensions," Wolfgang Ostwald,1917

A Handbook of colloid-chemistry Carl Wilhelm Wolfgang Ostwald,1915 **A Handbook of Colloid-chemistry** Wolfgang Ostwald,1915 A Handbook of Colloid-chemistry ... Translated from the 3d. German Ed Dr. Wolfgang Ostwald,1919 **The Chemical Trade Journal and Chemical Engineer** G Kelville Davis,1926 A Handbook of Colloid-chemistry ... Tr. from the 3d German Ed Dr. Wolfgang Ostwald,1915 **The Journal of Physical Chemistry** ,1924 **Acoustical Engineering** Harry Ferdinand Olson,1957 Based on author s Elements of acoustical engineering Van Nostrand 1940 **General Chemistry for Colleges** B. Smith Hopkins,1930 **General Chemistry** Horace Grove Deming,1925 A Text-book of Inorganic Chemistry Arnold Frederik Holleman,1921 **Radical Polymerization in Disperse Systems** Jaroslav Bartoň,Ignác Capek,1994 Polymer dispersions play an important role in the production of synthetic elastomers surface coatings such as paints and lacquers adhesives resins additives etc This book provides a comprehensive overview of radical processes involved in the preparation of polymers and copolymers in disperse systems with particular emphasis on emulsions Annual Reports on the Progress of Chemistry Chemical Society (Great Britain),1908 Annual Reports on the Progress of Chemistry ,1907

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