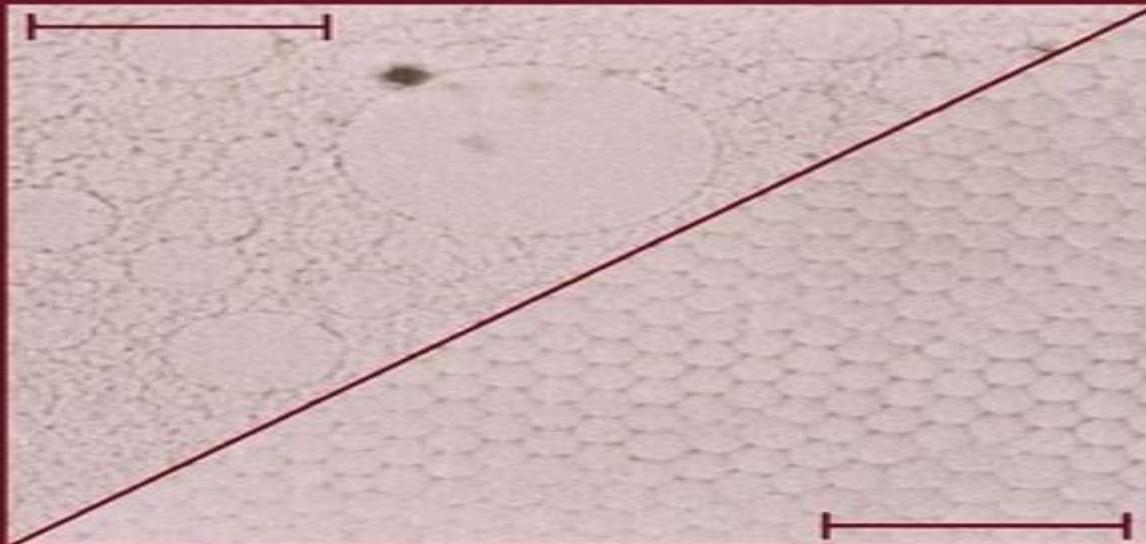


MODERN ASPECTS OF EMULSION SCIENCE



Edited by Bernard P. Binks

Modern Aspects Of Emulsion Science

B Lingard



Modern Aspects Of Emulsion Science:

Modern Aspects of Emulsion Science Bernard P Binks,2007-10-31 Emulsions occur either as end products or during the processing of products in a huge range of areas including the food agrochemical pharmaceutical paint and oil industries Despite over one hundred years of research in the subject however a quantitative understanding of emulsions has been lacking Modern Aspects of Emulsion Science presents a comprehensive description of both the scientific principles in the field and the very latest advances in research in this important area of surface and colloid science Topics covered include emulsion formation type stability creaming flocculation ripening coalescence monodisperse and gel emulsions and applications Emphasis has been placed on relating the chemistry of the surfactant or protein adsorbed at the oil water interface to the principles of the physics involved in the bulk emulsion property The book has been written by a collection of the world s leading experts in the field and covers both experimental and theoretical approaches Modern Aspects of Emulsion Science fills a real gap in the market being the only book of its kind in print As such it will prove essential reading for graduates and researchers in this subject in both academia and industry Emulsions: Structure, Stability and Interactions Dimiter N. Petsev,2004-10-14 Emulsions Structure Stability and Interactions is the perfect handbook for scientists looking to obtain up to date knowledge about the fundamentals of emulsion science and those looking to familiarize themselves with the subject in greater detail As a stand alone source of information it is also ideal for solving the practical issues encountered daily in the field of emulsion science While each chapter presents a concise review on a specific topic the book offers a consistent presentation of the important physical concepts relevant to emulsions Some of the topics covered include statistical mechanics of fluid interfaces the structure of fluid interfaces determined by neutron scattering hydrodynamic interactions and stability of emulsion films theory of emulsion flocculation coalescence kinetics of Brownian emulsions and Brownian dynamics simulation of emulsion stability Full and comprehensive presentations Rigorous approach to each topic providing in depth information Acts as a stand alone source of information Emulsion Science Fernando Leal-Calderon,Véronique Schmitt,Jerôme Bibette,2007-08-10 This book gives an overview of the most recent advances in emulsion science from the preparation to the destruction of these materials This book is intended for a large audience from undergraduate students to senior scientists A progressive and didactic approach is proposed for that purpose The concepts presented should provide a useful guidance for formulating and controlling the lifetime of emulsion at laboratory and industrial scales For easy comprehension the text is illustrated by more than 70 figures This book is a new edition of the one published in the series Springer Tracts in Modern Physics vol 181 The main difference is a more didactic approach which will allow the non specialist reader to capture the essential concepts We shall also incorporate the very last research results solid stabilized emulsions metastability and novel applications Biotechnology **Emulsion Science** Jérôme Bibette,Fernando Leal-Calderon,Véronique Schmitt,Philippe Poulin,2003-07-01 Emulsions occur either as end products or during the

processing of products in a huge range of areas including the food agrochemical pharmaceuticals paints and oil industries As end products emulsions allow to avoid organic solvent in processing hydrophobic coatings Emulsion technology is a suitable approach to vehicle viscous phases It is also a remarkable mean of targeting actives or capturing specific species The range of applications of emulsions progresses and their manufacturing becomes more and more sophisticated Besides this broad domain of technological interest emulsions are raising a variety of fundamental questions at the frontier between physics and chemistry Indeed as a class of soft colloidal materials emulsions science is linked to various aspects of these disciplines phase transitions surface forces and wetting metastability and hydrodynamic instabilities mechanical properties and flow The aim of this book is to review the main important concepts governing emulsion science In Chapter 2 repulsive interactions between liquid films are discussed as well as adhesive interaction related to wetting In Chapter 3 consequences of weak and strong attractions are presented related to the well accepted liquid solid transition analogy In Chapter 4 the basics of both bulk compressibility and shear elasticity are presented the role of disorder being the most important aspect of the elastic behavior of these soft systems In Chapter 5 the central question of the emulsion lifetime related to metastability is discussed

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emulsion science In Chapter 2 repulsive interactions between liquid films are discussed as well as adhesive interaction related to wetting In Chapter 3 consequences of weak and strong attractions are presented related to the well accepted liquid solid transition analogy In Chapter 4 the basics of both bulk compressibility and shear elasticity are presented the role of disorder being the most important aspect of the elastic behavior of these soft systems In Chapter 5 the central question of the emulsion lifetime related to metastability is discussed

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Sciences de la matière et microgravité Dominique Langevin, Roger Prud'homme, G. Faivre, 2001

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Modern Aspects Of Emulsion Science Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Modern Aspects Of Emulsion Science**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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