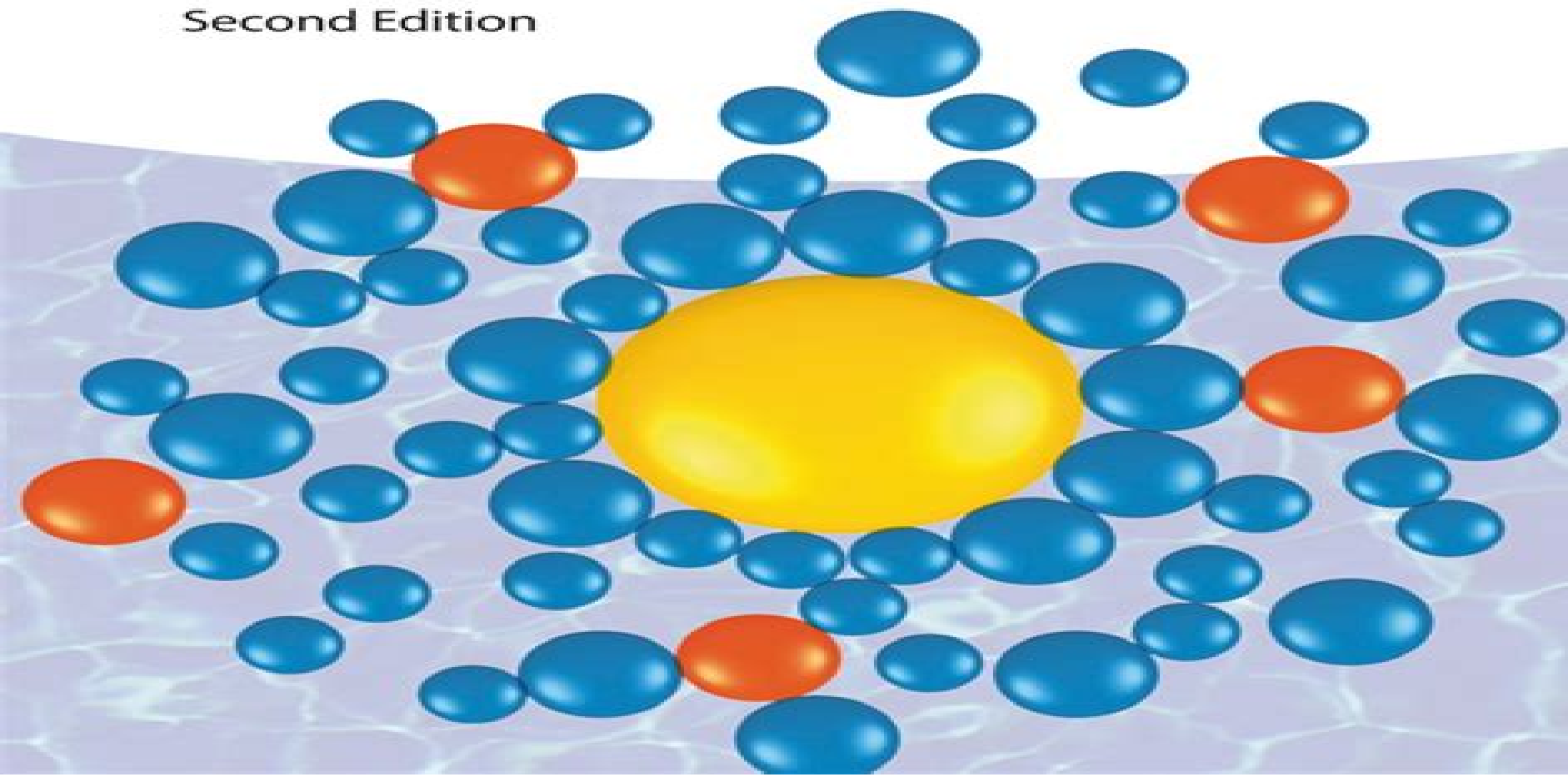


Laurier L. Schramm

Emulsions, Foams, Suspensions, and Aerosols

Microscience and Applications

Second Edition



Emulsions Foams

Laurier L. Schramm



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Emulsions, Foams, and Suspensions Laurier L. Schramm, 2006-05-12 Until now colloid science books have either been theoretical or focused on specific types of dispersion or on specific applications This then is the first book to provide an integrated introduction to the nature formation and occurrence stability propagation and uses of the most common types of colloidal dispersion in the process related industries The primary focus is on the applications of the principles paying attention to practical processes and problems This is done both as part of the treatment of the fundamentals where appropriate and also in the separate sections devoted to specific kinds of industries Throughout the treatment is integrated with the principles of colloid and interface science common to each dispersion type presented for each major physical property class followed by separate treatments of features unique to emulsions foams or suspensions The first half of the book introduces the fundamental principles introducing readers to suspension formation and stability characterization and flow properties emphasizing practical aspects throughout The following chapters discuss a wide range of industrial applications and examples serving to emphasize the different methodologies that have been successfully applied Overall the book shows how to approach making emulsions foams and suspensions with different useful properties how to propagate them and how to prevent their formation or destabilize them if necessary The author assumes no prior knowledge of colloid chemistry and with its glossary of key terms complete cross referencing and indexing this is a must have for graduate and professional scientists and engineers who may encounter or use emulsions foams or suspensions or combinations thereof whether in process design industrial production or in related R D fields Emulsions, Foams, and Thin Films K.L.

Mittal, Promod Kumar, 2000-05-16 This volume presents the accomplishments of over 85 internationally renowned scientists whose work was influenced by Professor Wasan's groundbreaking research on interfacial phenomena at The Illinois Institute of Technology Chicago Emulsions, Foams, Suspensions, and Aerosols Laurier L. Schramm, 2014-08-12 This is the first book to provide an integrated introduction to the nature formation and occurrence stability propagation and uses of the most common types of colloidal dispersion in the process related industries The primary focus is on the applications of the principles paying attention to practical processes and problems This is done both as part of the treatment of the fundamentals where appropriate and also in the separate sections devoted to specific kinds of industries Throughout the treatment is integrated with the principles of colloid and interface science common to each dispersion type presented for each major physical property class followed by separate treatments of features unique to emulsions foams or suspensions The first half of the book introduces the fundamental principles introducing readers to suspension formation and stability characterization and flow properties emphasizing practical aspects throughout The following chapters discuss a wide range of industrial applications and examples serving to emphasize the different methodologies that have been successfully applied The author assumes no prior knowledge of colloid chemistry and with its glossary of key terms complete cross referencing

and indexing this is a must have for graduate and professional scientists and engineers who may encounter or use emulsions foams or suspensions or combinations thereof whether in process design industrial production or in related R D fields

Foams and Emulsions J.F. Sadoc,N. Rivier,2013-03-09 A general and introductory survey of foams emulsions and cellular materials Foams and emulsions are illustrations of some fundamental concepts in statistical thermodynamics rheology elasticity and the physics and chemistry of divided media and interfaces They also give rise to some of the most beautiful geometrical shapes and tilings ordered or disordered The chapters are grouped into sections having fairly loose boundaries Each chapter is intelligible alone but cross referencing means that the few concepts that may not be familiar to the reader can be found in other chapters in the book Audience Research students researchers and teachers in physics physical chemistry materials science mechanical engineering and geometry

Essentials of Food Science Vickie A. Vaclavik,Elizabeth W. Christian,2007-12-03 Essentials of Food Science covers the basics of foods food science and food technology The book is meant for the non major intro course whether taught in the food science or nutrition dietetics department In previous editions the book was organized around the USDA Food Pyramid which has been replaced The revised pyramid will now be mentioned in appropriate chapters only Other updates include new photos website references and culinary alerts for culinary and food preparation students Two added topics include RFID Radio frequency ID tags and trans fat disclosures Includes updates on food commodities optimizing quality laws and food safety

Non-Newtonian Flow and Applied Rheology R. P. Chhabra,Swati A. Patel,2025-03-01 Non Newtonian Flow and Applied Rheology Engineering Applications Third Edition bridges the gap between the theoretical work of the rheologist and the practical needs of those who have to design and operate the systems in which these materials are handled or processed This new edition addresses the rapid advances that are occurring in all aspects of the topics covered in this book such as new measurement techniques or new constitutive equations and more reliable information based on numerical simulations New solved examples are added in each chapter along with a list of problems at the end of the book This is an established and important reference for senior level mechanical engineers chemical and process engineers as well as any engineer or scientist who needs to study or work with these fluids including pharmaceutical engineers mineral processing engineers medical researchers water and civil engineers Extensively revised and expanded with material on new measurement techniques new constitutive equations and information based on numerical simulations Covers both basic rheology and fluid mechanics in non Newtonian fluids making it a truly self contained reference for anyone studying or working with the processing and handling of fluids Provides solved examples to illustrate and or aid understanding of the concepts Written by a world s leading expert in an accessible style

Surfactants Bob Aveyard,2019-10-09 Surfactants today you have probably eaten some or rubbed others on your body Plants animals including you and microorganisms make them and many everyday products e g detergents cosmetics foodstuffs contain them Surfactant molecules have one part which is soluble in water and

another which is not. This gives surfactant molecules two valuable properties: 1 they adsorb at surfaces e.g. of an oil droplet in water and 2 they stick together and aggregate in water. The aggregates, micelles, are able to dissolve materials not soluble in water alone and adsorbed surfactant layers at the surfaces of particles or say oil droplets in water stop the particles or drops sticking together. This is why stable emulsions such as milk do not separate into layers. This book treats the basic physical chemistry and physics underlying the behaviour of surfactant systems. In this book you will first learn about some background material including hydrophobic hydration, interfacial tension and capillarity. Section I: Discussion of surfactant adsorption at liquid fluid and solid liquid interfaces is given in Section II and includes thermodynamics of adsorption, dynamic and rheological aspects of liquid interfaces and the direct characterisation of surfactant monolayers. In Section III a description is given of surfactant aggregation to give micelles, lyotropic liquid crystals, microemulsions and Winsor systems. There follows a discussion of surface forces and the way they confer stability on lyophobic colloids and thin liquid films. Section IV: Various dispersions stabilised by adsorbed surfactant or polymer including solid in liquid dispersions, emulsions and foams are considered in Section V. The wetting of solids and liquids is explored in Section VI. Like surfactants, small solid particles can adsorb at liquid fluid interfaces, form monolayers and stabilise emulsions and foams. Such behaviour is covered in Section VII. It is assumed the reader has a knowledge of undergraduate physical chemistry, particularly chemical thermodynamics and of simple physics. Mathematics, elementary algebra and calculus, is kept at a level consistent with the straightforward derivation of many of the equations presented.

Food Analysis Suzanne Nielsen, 2014-09-04. This book provides information on the techniques needed to analyze foods in laboratory experiments. All topics covered include information on the basic principles, procedures, advantages, limitations and applications. This book is ideal for undergraduate courses in food analysis and is also an invaluable reference to professionals in the food industry. General information is provided on regulations, standards, labeling, sampling and data handling as background for chapters on specific methods to determine the chemical composition and characteristics of foods. Large expanded sections on spectroscopy and chromatography also are included. Other methods and instrumentation such as thermal analysis, ion selective electrodes, enzymes and immunoassays are covered from the perspective of their use in the analysis of foods. A website with related teaching materials is accessible to instructors who adopt the textbook.

Food Emulsions and Foams E. Dickinson, 1987-02-01. This text explains how properties of the system are affected by such factors as the crystallisation of the fat, the surface behaviour of the proteins and presence of various small molecules and ions in the aqueous phase.

Emulsions, Microemulsions and Foams Dominique Langevin, 2020-12-04. This book takes an interface science approach to describe and understand the behavior of the dispersions we call emulsions, microemulsions and foams. The one thing all these dispersions have in common is the presence of surface active species, surfactants, adsorbed at the interfaces between the two fluid phases that make up the emulsions, microemulsions or foams. The interfacial layers formed by the surfactants control most of the properties of the dispersions.

The book describes the properties of interfacial layers thin films and bulk fluids used in the elaboration of the various dispersions and it explains how such properties relate to the dispersion properties of these soft matter systems structure rheology and stability These dispersion properties are far from being fully understood in particular foam and emulsion stability In discussing the state of the art of the current knowledge the author draws interesting parallels between emulsions microemulsions and foams that enlighten the interpretation of previous observations and point to a deeper understanding of the behavior of these materials in the future

Food Analysis S. Suzanne Nielsen, 2017-06-06 This fifth edition provides information on techniques needed to analyze foods for chemical and physical properties The book is ideal for undergraduate courses in food analysis and is also an invaluable reference to professionals in the food industry General information chapters on regulations labeling sampling and data handling provide background information for chapters on specific methods to determine chemical composition and characteristics physical properties and objectionable matter and constituents Methods of analysis covered include information on the basic principles advantages limitations and applications Sections on spectroscopy and chromatography along with chapters on techniques such as immunoassays thermal analysis and microscopy from the perspective of their use in food analysis have been expanded Instructors who adopt the textbook can contact the editor for access to a website with related teaching materials

Engineering Plant-Based Food Systems Sangeeta Prakash, Bhesh Bhandari, Claire Gaiani, 2022-11-16 Engineering Plant Based Food Systems provides a comprehensive in depth understanding on the technologies used to create quality plant based foods This title helps researchers and food processors gain an understanding of the diverse aspects of plant based foods with a focus to meet the current consumers demand of alternatives to animal products This is a one stop source that provides maximum information related to plant based foods to food science researchers food engineers and food processing manufacturers This book will enhance their understanding of plant based protein sources their application product manufacturing and bioavailability In recent years the emphasis on minimizing environmental footprints climate change greenhouse gas emissions deforestation and loss of biodiversity and human health issues related to animal source food intakes has shifted the attention of researchers dietitians and health professionals from animal based diets to diets rich in plant based foods legumes nuts seeds Explores the plant sources available for extraction of proteins the various extraction methods and the quality and functionality of the extracted proteins Describes existing plant based foods such as beverages yogurts spreads fermented foods and meats Provides information related to various plant based functional components such as polyphenols phytosterols aromatics and essential oils etc

Handbook of Molecular Gastronomy Christophe Lavelle, Herve This, Alan L. Kelly, Roisin Burke, 2021-06-08 Handbook of Molecular Gastronomy Scientific Foundations and Culinary Applications presents a unique overview of molecular gastronomy the scientific discipline dedicated to the study of phenomena that occur during the preparation and consumption of dishes It deals with the chemistry biology and physics of food preparation along with the

physiology of food consumption As such it represents the first attempt at a comprehensive reference in molecular gastronomy along with a practical guide through selected examples to molecular cuisine and the more recent applications named note by note cuisine While several books already exist for a general audience either addressing food science in general in a light way and or dealing with modern cooking techniques and recipes no book exists so far that encompasses the whole molecular gastronomy field providing a strong interdisciplinary background in the physics biology and chemistry of food and food preparation along with good discussions on creativity and the art of cooking Features Gives A Z coverage to the underlying science physics chemistry and biology and technology as well as all the key cooking issues ingredients tools and methods Encompasses the science and practice of molecular gastronomy in the most accessible and up to date reference available Contains a final section with unique recipes by famous chefs The book is organized in three parts The first and main part is about the scientific discipline of molecular and physical gastronomy it is organized as an encyclopedia with entries in alphabetical order gathering the contributions of more than 100 authors all leading scientists in food sciences providing a broad overview of the most recent research in molecular gastronomy The second part addresses educational applications of molecular gastronomy from primary schools to universities The third part provides some innovative recipes by chefs from various parts of the world The authors have made a particular pedagogical effort in proposing several educational levels from elementary introduction to deep scientific formalism in order to satisfy the broadest possible audience scientists and non scientists This new resource should be very useful to food scientists and chefs as well as food and culinary science students and all lay people interested in gastronomy

Food Emulsions and Foams Eric Dickinson, J. M. Rodríguez Patino, 1999
 Records the current understanding of the stability and rheological properties of food dispersions containing particles droplets and bubbles such as yoghurt ice cream and mayonnaise Among the 30 papers are invited lectures on dispersion stabilization and destabilization by polymers attractive interactions and aggregation in food dispersion food dispersion stability the dilational rheology of proteins absorbed at fluid interfaces dynamic properties of protein and surfactant mixtures at the interface between air and liquid and factors determining the small deformation behavior of gels The poster papers presented will be published in a separate volume Distributed in the US by Springer Verlag the UK price is 85 pounds or about 140 Annotation copyrighted by Book News Inc Portland OR

Emulsions and Foams Sophia Berkman, Gustav Egloff, 1941

Foams, Emulsions, and Their Applications Pacelli Zitha, 2000

Food Emulsion and Foams American Institute of Chemical Engineers. Meeting, 1990 Combining three symposia from the AIChE Annual Meeting in San Francisco November 1989 this volume demonstrates the importance of surface and colloid science in food systems The three sections corresponding to the three symposia address topics in food emulsions fundamentals food emulsions appli

The Theory of Emulsions and Emulsification William Clayton, 1923

The Dynamics of living matter Jacques Loeb, 1906

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