

PROGRESS IN
COLLOID AND
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SCIENCE

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INTERFACIAL RHEOLOGY

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Interfacial Rheology Progress In Colloid And Interface Science

**Mohammad Taeibi Rahni, Mohsen
Karbaschi, Reinhard Miller**



Interfacial Rheology Progress In Colloid And Interface Science:

Interfacial Rheology Reinhard Miller,Libero Liggieri,2019-12 This is the first book on interfacial rheology It aims to describe both its history as well as the current most frequently used experimental techniques for studying dilational and shear rheology of layers at liquid gas and liquid liquid interfaces The book opens with a chapter on the fundamentals of interfacial rheology All 16 contributions include the theoretical basis for the presented methodologies and experimental examples are given *Computational Methods for Complex Liquid-Fluid Interfaces* Mohammad Taeibi Rahni,Mohsen Karbaschi,Reinhard Miller,2015-11-11 Computational Methods for Complex Liquid Fluid Interfaces highlights key computational challenges involved in the two way coupling of complex liquid fluid interfaces The book covers a variety of cutting edge experimental and computational techniques ranging from macro to meso and microscale approaches including pivotal applications As example *Interfacial Rheology* Reinhard Miller,Libero Liggieri,2009-06-17 This is the first book on interfacial rheology It aims to describe both its history as well as the current most frequently used experimental techniques for studying dilational and shear rheology of layers at liquid gas and liquid liquid interfaces The book opens with a chapter on the fundamentals of interfacial rheology All 16 contributions i *Colloid and Interface Chemistry for Nanotechnology* Peter Kralchevsky,Reinhard Miller,Francesca Ravera,2016-04-19 Colloid and interface science dealt with nanoscale objects for nearly a century before the term nanotechnology was coined An interdisciplinary field it bridges the macroscopic world and the small world of atoms and molecules Colloid and Interface Chemistry for Nanotechnology is a collection of manuscripts reflecting the activities of research te *Surface and Interfacial Forces* Hans-Jürgen Butt,Michael Kappl,2018-06-05 A general introduction to surface and interfacial forces perfectly combining theoretical concepts experimental techniques and practical applications In this completely updated edition all the chapters have been thoroughly revised and extended to cover new developments and approaches with around 15% new content A large part of the book is devoted to surface forces between solid surfaces in liquid media and while a basic knowledge of colloid and interface science is helpful it is not essential since all important concepts are explained and the theoretical concepts can be understood with an intermediate knowledge of mathematics A number of exercises with solutions and the end of chapter summaries of the most important equations facts and phenomena serve as additional tools to strengthen the acquired knowledge and allow for self study The result is a readily accessible text that helps to foster an understanding of the intricacies of this highly relevant topic

Recent Trends in Surface and Colloid Science Bidyut Kumar Paul,2012 Colloid and surface science is a fascinating interdisciplinary field where modern development and knowledge of physics chemistry biology material science pharmacy and engineering have been extensively adopted with ample scope for fundamental research and extensive potential for application The progress of research in this important field has been remarkable during the last four decades and it has greatly benefited society With a summary of recent advances in this multifaceted field *Recent Trends in Surface and Colloid*

Science provides critical information and presents the basic concepts of organized systems in relation to their practical significance

The Rheology Handbook Thomas Mezger, 2020-08-25 Already in its 5th edition this standard work describes the principles of rheology clearly vividly and in practical terms The book includes the rheology of additives in waterborne dispersions and surfactant systems Not only it is a great reference book it can also serve as a textbook for studying the theory behind the methods The practical use of rheology is presented in the areas quality control production and application chemical and mechanical engineering materials science and industrial research and development After reading this book the reader should be able to perform tests with rotational and oscillatory rheometers and interpret the results correctly

Foam Films and Foams Dotchi Exerowa, Georgi Gochev, Dimo Platikanov, Libero Liggieri, Reinhard Miller, 2018-07-27 This book describes in detail the scientific philosophy of the formation and stabilization destabilization of foams It presents all hierarchical steps of a foam starting from the properties of adsorption layers formed by foaming agents discussing the properties of foam films as the building blocks of a foam and then describing details of real foams including many fields of application The information presented in the book is useful to people working on the formulation of foams or attempting to avoid or destruct foams in unwanted situations

Bubble and Drop Interfaces Reinhard Miller, Libero Liggieri, 2011-06-09 This book describes the most important experimental methods for characterizing liquid interfaces such as drop profile analysis bubble pressure and drop volume tensiometry capillary pressure technique and oscillating drops and bubbles It presents practical experimental details as well as the underlying theoretical bases In addition the book c

Food Proteins and Peptides Navam S. Hettiarachchy, Kenji Sato, Maurice R. Marshall, Arvind Kannan, 2012-03-19 A multidisciplinary resource Food Proteins and Peptides Chemistry Functionality Interactions and Commercialization enables researchers in biochemistry biotechnology food science and technology nutrition and medicine to understand the physicochemical and biochemical factors that govern the functionality of these food components Following chapters on the structure and chemistry of amino acids peptides and proteins the book describes modes of characterization and the functional relationships of food proteins It examines protein solubility and insolubility and explores proteins and peptides as emulsifying and foaming agents Specialized topics include Factors affecting heat induced casein whey protein interactions in bovine milk systems The effects of protein saccharide interactions on the properties of food components Ameliorative action of peptides on cholesterol and lipid metabolism Proteins and peptides with elements of sweetness kokumi umami and bitterness A new approach for the large scale fractionation of peptides based on their amphoteric nature The book examines the source of bioactive peptides and describes their bioavailability including their absorption and occurrence in human blood It also provides a database of biologically active proteins and peptides Final chapters review current status future industrial perspectives and future trends of bioactive food proteins and peptides and explore the role of nanotechnology in protein research With contributions from a panel of international scientists this volume captures the state of the art in protein and peptide research providing a

launching pad for further inquiry and discovery **Food Emulsions** David Julian McClements, 2015-08-21 Continuing the mission of the first two editions Food Emulsions Principles Practices and Techniques Third Edition covers the fundamentals of emulsion science and demonstrates how this knowledge can be applied to control the appearance stability and texture of emulsion based foods Initially developed to fill the need for a single resource co **Engineering Aspects of Food**

Emulsification and Homogenization Marilyn Rayner, Petr Dejmek, 2015-04-24 Emulsions are found in a wide variety of food products pharmaceuticals paints and cosmetics thus emulsification is a truly multidisciplinary phenomenon Therefore understanding of the process must evolve from the combination of at least three different scientific specializations

Engineering Aspects of Food Emulsification and Homogenization d **Advances in Food Rheology and Its Applications**

Jasim Ahmed, Santanu Basu, 2022-09-13 Advances in Food Rheology and Its Applications Development in Food Rheology Second Edition presents the latest advances in the measurement and application of food rheology one of the most important tools for food companies when characterizing ingredients and final products and a predictor of product performance and consumer acceptance This second edition provides coverage of new rheological measurement techniques including ultrasonic measurements of rheological properties of food and NMR approach and precision in data handling including coverage of mathematical modeling of rheological properties As the range of food products has also broadened as a result of consumer demands and preference this second edition includes a series of new chapters on dairy and plant based foods The amalgamation between food texture and sensory attributes will also be addressed In addition coverage of the correlation between rheological behavior and modeling of the fluid in a human stomach and food digestion will be assessed A special focus has given on rheology of gel systems including food hydrogels bigel and organogels Written for food scientists food technologists sensory scientists and others working in academia and industry Advances in Food Rheology and Its Applications Development in Food Rheology Second Edition will be a welcomed and updated reference Considers the impact of artificial intelligence and machine vision on rheological characterization and process control Presents ultrasonic measurements of rheological properties of food and NMR approach and precision in data handling Covers thermodynamic approach of rheology and interfacial rheology Explains various gel systems rheology including bogels and organogels

Practical Food Rheology Ian T. Norton, Fotios Spyropoulos, Philip Cox, 2010-12-01 Rheology is fundamentally important in food manufacturing in two major senses Understanding the way in which a substance moves and behaves is essential in order to be able to transport and mix it during processing Secondly the rheology of a product dictates much of the consumer experience e g in relation to texture and mouthfeel This book doesn't overwhelm the reader with complex mathematical equations but takes a simple and practically focused approach interpreting the implications of rheological data for use in different food systems Through this approach industry based food developers rheologists students and academics are given clear concise interpretation of rheological data which directly relates to actual perceived functionality in the food The

functionality may relate to texture structure and mouthfeel and may result as a function of temperature pH flocculation concentration effects and mixing The interpretative view is based on the principle that the food rheologist will produce a graph for example of viscosity or gelation profiling and then have to extract a practical meaning from it For example if viscosity falls with time as a function of pH this knowledge can be used to tell the customer that the viscosity can be followed with just a pH meter and a stopwatch Rheological measurements have shown that once the pH has dropped 1 unit after 10 minutes the viscosity has been halved This is the type of practical and valuable information for customers of the industrial food rheologist which the book will enable readers to access Key features A uniquely practical approach to the often difficult science of food rheology Includes chapters introducing the basics of food rheology before moving on to how data can be usefully and easily interpreted by the food scientist Can be used as a teaching aid on academic or industry based courses

Transport Processes at Fluidic Interfaces Dieter Bothe,Arnold Reusken,2017-07-13 There are several physico chemical processes that determine the behavior of multiphase fluid systems e g the fluid dynamics in the different phases and the dynamics of the interface s mass transport between the fluids adsorption effects at the interface and transport of surfactants on the interface and result in heterogeneous interface properties In general these processes are strongly coupled and local properties of the interface play a crucial role A thorough understanding of the behavior of such complex flow problems must be based on physically sound mathematical models which especially account for the local processes at the interface This book presents recent findings on the rigorous derivation and mathematical analysis of such models and on the development of numerical methods for direct numerical simulations Validation results are based on specifically designed experiments using high resolution experimental techniques A special feature of this book is its focus on an interdisciplinary research approach combining Applied Analysis Numerical Mathematics Interface Physics and Chemistry as well as relevant research areas in the Engineering Sciences The contributions originated from the joint interdisciplinary research projects in the DFG Priority Programme SPP 1506 Transport Processes at Fluidic Interfaces [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

Nanoemulsions Seid Mahdi Jafari,D. Julian McClements,2018-02-24 Nanoemulsions Formulation Applications and Characterization provides detailed information on the production application and characterization of food nanoemulsion as presented by experts who share a wealth of experience Those involved in the nutraceutical pharmaceutical and cosmetic industries will find this a useful reference as it addresses findings related to different preparation and formulation methods of nanoemulsions and their application in different fields and products As the last decade has seen a major shift from conventional emulsification processes towards nanoemulsions that both increase the efficiency and stability of emulsions and improve targeted drug and nutraceutical delivery this book is a timely resource Summarizes general aspects of food nanoemulsions and their formulation Provides detailed information on the production application and characterization of food nanoemulsion Reveals the potential of nanoemulsions as well as their novel applications in functional foods nutraceutical products delivery systems and cosmetic formulations Explains preparation of nanoemulsions by both low and high energy methods

Physics and Chemistry of Interfaces Hans-Jürgen Butt,Karlheinz Graf,Michael Kappl,2023-02-07 Physics and Chemistry of Interfaces Comprehensive textbook on the interdisciplinary field of interface science fully updated with new content on wetting spectroscopy and coatings Physics and Chemistry of Interfaces provides a comprehensive introduction to the field of surface and interface science focusing on essential concepts rather than specific details and on intuitive understanding rather than convoluted math Numerous high end applications from surface technology biotechnology and microelectronics are included to illustrate and help readers easily comprehend basic concepts The new edition contains an increased number of problems with detailed worked solutions making it ideal as a self study resource In topic coverage the highly qualified authors take a balanced approach discussing advanced interface phenomena in detail while remaining comprehensible Chapter summaries with the most important equations facts and phenomena are included to aid the reader in information retention A few of the

sample topics included in Physics and Chemistry of Interfaces are as follows Liquid surfaces covering microscopic picture of a liquid surface surface tension the equation of Young and Laplace and curved liquid surfaces Thermodynamics of interfaces covering surface excess internal energy and Helmholtz energy equilibrium conditions and interfacial excess energies Charged interfaces and the electric double layer covering planar surfaces the Grahame equation and limitations of the Poisson Boltzmann theory Surface forces covering Van der Waals forces between molecules macroscopic calculations the Derjaguin approximation and disjoining pressure Physics and Chemistry of Interfaces is a complete reference on the subject aimed at advanced students and their instructors in physics material science chemistry and engineering Researchers requiring background knowledge on surface and interface science will also benefit from the accessible yet in depth coverage of the text

Biopolymers in Food Colloids: Thermodynamics and Molecular Interactions Maria Germanovna Semenova, Eric Dickinson, 2010-01-13 The theme and contents of this book have assumed a new significance in the light of recent ideas on nanoscience and nanotechnology which are now beginning to influence developments in food research and food processing The fabrication of nanoscale structures for food use relies on an in depth understanding of thermodynamically driven interactions

Rheology of Semisolid Foods Helen S. Joyner, 2019-11-13 Rheology of Semisolid Foods comprehensively covers the rheological behaviors and rheological testing of semisolid foods Individual chapters focus on semisolid food structure rheological and sensory behaviors testing of various semisolid food behaviors and factors that impact those behaviors Special concentration is given to the relationships among semisolid food structures and mechanical properties and textures The second section of this work presents a series of case studies on acid milk gels and yogurt which provide a practical illustration of the concepts presented in the preceding chapters allowing readers to gain both conceptual knowledge of semisolid food rheology and an understanding of how that knowledge can be applied to a food system of choice Individual components processing parameters and storage conditions can dramatically impact food functional properties and textures Changing any of these factors can cause significant microstructural alterations resulting in undesirable changes in product stability functionality and texture The lack of knowledge of how these factors impact the final food properties makes development of new food products a process of empirical trial rather than intentional design A fundamental understanding food structure function and texture relationships is critical for targeted design of food products This text is a valuable reference for researchers looking to gain an understanding of how rheology works in semisolid food design and processing

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