

1 Rheology of disperse systems

N. Willenbacher and K. Georgieva

1.1 Introduction

Rheology of disperse systems is an extremely important processing parameter. Being able to characterize and manipulate the flow behavior of dispersions one can ensure their optimal performance. Automotive coatings, for example, should exhibit a distinct low-shear viscosity necessary to provide good leveling but to avoid sagging at the same time. Then a strong degree of shear thinning is needed in order to guarantee good pump- and sprayability. The rheological properties of dispersions, especially at high solid content, are complex and strongly dependent on the applied forces. Adding particles does not simply increase the viscosity of the liquid as a result of the hydrodynamic disturbance of the flow; it also can be a reason for deviation from the Newtonian behavior including shear rate dependent viscosity, elasticity and time dependent rheological behavior. Colloidal dispersions at moderate volume fraction normally flow like shear-thinning, low viscous liquids. At high concentrations dispersions often behave as solids and require a finite stress to deform the structural network and then start to flow. The microstructure deformed under stress usually can not recover immediately from large strains since the colloidal interactions governing the microstructure have a short range and decrease with increasing the interparticle separation. Depending whether the colloidal interactions are attractive or repulsive the particles can form different structures which determine the rheological behavior of the material. In the case of attractive particle interactions loose flocs with fractal structure can be formed immobilizing part of the continuous phase thus leading to larger effective particle volume fraction and correspondingly to increase of viscosity. Above a critical volume fraction a sample-spanning network forms, which results in a highly elastic, gel-like behavior and an apparent yield stress. Shear-induced breakup and recovery of floc structure leads to thixotropic behavior. Electrostatic or steric repulsion between particles define an excluded volume which is not accessible by another particle leading to crystalline or gel-like state at particle concentrations lower than the maximum packing fraction.

Characterization of the microstructure and flow properties of dispersions is essential for the understanding and controlling their rheological behavior. In this chapter we first introduce methods and techniques for standard rheological tests and then characterize the rheology of hard

1 Rheology Of Disperse Systems Kit

Michael Brown



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Rheology of Disperse Systems British Society of Rheology, 1959
Wiley, 2012-12-03 The book provides comprehensive up to date information on the physical properties of polymers including viscoelasticity flammability miscibility optical properties surface properties and more Containing carefully selected reprints from the Wiley s renowned Encyclopedia of Polymer Science and Technology this reference features the same breadth and quality of coverage and clarity of presentation found in the original

Properties and Behavior of Polymers, 2 Volume Set
Alexander T. Florence, Juergen Siepmann, 2016-04-19 This new edition brings you up to date on the role of pharmaceuticals and its future paradigms in the design of medicines Contributions from over 30 international thought leaders cover the core disciplines of pharmaceuticals and the impact of biotechnology gene therapy and cell therapy on current findings Modern Pharmaceuticals helps you stay current

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Proceedings of the ... International Congress on Rheology, 1976
Flow Properties of Disperse Systems J. J. Hermans, 1953
Guide to Microforms in Print, 1992

Pharmaceutics Philip Denton, Chris Rostron, 2013-07-25 Pharmaceutics the science of medicine design explores the different forms that medicines can take and demonstrates how being able to select the best form be it a tablet injectable liquid or an inhaled gas requires an understanding of how chemicals behave in different physical states

Supramolecular And Colloidal Structures In Biomaterials And Biosubstrates Moti Lal, P J Lillford, V M Naik, V Prakash, 2000-05-12 Of central importance in personal care food pharmaceuticals and biotechnology biomaterials and biosubstrates formed the subject of the fifth meeting of the Royal Society Unilever INDO UK Forum in Materials Science and Engineering The programme for this

meeting dwelt on two principal foci i new advances in the measurement of the supramolecular and colloidal structures and ii the relationship of these structures to the functional properties of the materials This volume is a compilation of selected papers presented at the meeting by world renowned scientists who included among others Prof E D T Atkins Bristol UK Prof N Chandrakumar Chennai India Dr A M Hermansson Goteborg Sweden Dr V J Morris Norwich UK Prof P Walstra Wageningen The Netherlands Dr V Prakash Mysore India Prof S B Ross Murphy King s College London UK Prof G E Rogers Adelaide Australia Dr T Kealey Cambridge UK and Prof N Appaji Rao Bangalore India a *National Union Catalog* ,1956 Includes entries for maps and atlases *The British Journal for the Philosophy of Science* ,1961 **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 *Proceedings of the ... International Conference on Slurry Technology* ,1985 **Russian Journal of General Chemistry** ,1995 *Progress in Heat and Mass Transfer* ,1971 *Bentley's Textbook of Pharmaceutics - E-Book* Sanjay Kumar Jain,Vandana Soni,2011-08-23 This adaptation of Bentley s Textbook of Pharmaceutics follows the same goals as those of the previous edition albeit in a new look The content of the old edition has been updated and expanded and several new chapters viz Complexations Stability Testing as per ICH Guidelines Parenteral Formulations New Drug Delivery Systems and Pilot Plant Manufacturing have been included with an intention to make the book more informative for the modern pharmacists The book has six sections Section I deals with the physicochemical principles Two new chapters Complexations and ICH Guidelines for Stability Testing have been added to make it more informative Section II conveys the information regarding pharmaceutical unit operations and processes Section III describes the area of pharmaceutical practice Extensive recent updates have been included in many chapters of this section Two new chapters Parenteral Formulations and New Drug Delivery Systems have been added Section IV contains radioactivity principles and applications Section V deals with microbiology and animal products Section VI contains the formulation and packaging aspects of pharmaceuticals Pilot Plant Manufacturing concepts are added as a new chapter which may be beneficial to readers to understand the art of designing of a plant from the pilot plant model *Russian Journal of Physical Chemistry* ,2000 *The Publishers' Trade List Annual*

,1974 World Surface Coatings Abstracts ,1971

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