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Viscosimetry of Polymers and Polyelectrolytes



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Viscosimetry of Polymers and Polyelectrolytes Werner-Michael Kulicke, Christian Clasen, 2013-06-29 This laboratory handbook offers clear guidelines and tips for the practical everyday application of viscosimetry as well as supplying a comprehensive companion for the interpretation of viscosimetric data from simple to complex polymer solutions

Energetic Materials Mohammad Hossein Keshavarz, Thomas M. Klapötke, 2025-10-20 This publication addresses the critical need for chemists engaged in the synthesis of new energetic compounds to comprehensively evaluate physical and thermodynamic properties as well as sensitivity to various stimuli The book delves into established and emerging methods for predicting key properties such as crystal density heat of formation and melting points providing a thorough understanding of the subject matter In this revised edition we present updated insights across all chapters exploring topics like enthalpy and entropy of fusion heat of sublimation and correlations among different types of sensitivities Additionally three new chapters focus on the assessment of energetic metal organic complexes including energetic metal organic frameworks MOFs and energetic polymers alongside strategies for predicting properties of novel energetic compounds This book is an essential resource for researchers and practitioners in the field offering practical techniques and a solid foundation for advancing the synthesis and application of energetic materials Its relevance extends to both academic and industrial settings making it a vital addition to the literature on energetic compounds This book uniquely integrates theoretical methods with practical applications for predicting properties of energetic compounds It addresses the gap in understanding the sensitivity and stability of new materials Key features include updated methodologies new chapters on metal organic complexes and comprehensive coverage of critical properties

Macromolecules Hans-Georg Elias, 2005-10-28 Macromolecules provides a broad survey of the entire subject integrated representations of chemistry physics and technology precise descriptions and definitions of basic phenomena and balanced treatments of facts and theory The book series thus intends to bridge the gap between introductory textbooks and the highly specialized texts and monographs that cover only part of polymer science and technology Volume I is concerned with the fundamentals of chemical structure and principles of synthesis of macromolecules constitution configuration conformation polymerization equilibria polymerization mechanisms ionic coordination free radical step reactions including solid state and biochemical polymerizations polymer reactions and strategies for defined polymer architectures Volume II discusses individual polymers and their industrial syntheses Volume III the fundamentals of physical structures and properties and Volume IV the processing and application of polymers as plastics fibers elastomers thickeners etc The world of macromolecules in a nutshell *American Book Publishing Record* ,2003 Polyelectrolytes and

Nanoparticles Joachim Koetz, Sabine Kosmella, 2007-02-20 Polyelectrolytes i.e. water soluble polymers with a lot of dissociating functional groups and nanoparticles i.e. ne particles with diameters on the nanometer scale are two substance classes of growing interest. Both polyelectrolytes and nanoparticles can be found in many industrial applications such as in paints, per coatings, cosmetics and pharmaceuticals. For adjusting the properties of such multicomponent systems the knowledge of the macromolecular and electrochemical features of the polyelectrolytes on the one hand and the size and shape of the nanoparticles on the other hand is essential. Understanding the basic principles involved in the preparation of nanoparticles and control of the interparticle interaction forces by adsorbing polyelectrolytes is therefore crucial both from a scientific and application oriented point of view. Over the last years the term nanotechnology which refers to the technology that produces nanosize particles has been established and a new fast growing market has been born. The pioneers in this field were the alchemists who were already able in the 16th century to produce colloidal gold, however without knowledge of the scientific background of the formulation process. Today of course we know much more about the colloidal metal nanoparticles but still some questions are open. Therefore especially the formation, characterization and stabilization of gold nanoparticles as a nanoscale model system in presence of polyelectrolytes is discussed here in more detail. **Labs on Chip** Eugenio Iannone, 2018-09-03

Labs on Chip Principles, Design and Technology provides a complete reference for the complex field of labs on chip in biotechnology. Merging three main areas: fluid dynamics, monolithic micro and nanotechnology and out of equilibrium biochemistry, this text integrates coverage of technology issues with strong theoretical explanations of design techniques. Analyzing each subject from basic principles to relevant applications, this book describes the biochemical elements required to work on labs on chip. Discusses fabrication, microfluidic and electronic and optical detection techniques. Addresses planar technologies, polymer microfabrication and process scalability to huge volumes. Presents a global view of current lab on chip research and development. Devotes an entire chapter to labs on chip for genetics. Summarizing in one source the different technical competencies required. **Labs on Chip** Principles, Design and Technology offers valuable guidance for the lab on chip design decision making process while exploring essential elements of labs on chip useful both to the professional who wants to approach a new field and to the specialist who wants to gain a broader perspective.

Polyelectrolytes E. Sélégny, 2012-12-06 This book contains a number of articles inspired by the NATO Advanced Study Institute on Charged and Reactive Polymers held in France in June 1972. This general title indicates simply the intention of a series. The meeting dealt mainly with the fundamental problems of the physical chemistry of polyelectrolytes in solution. Some of the articles reproduce the lectures exactly as they were delivered. Some others have been modified to a greater or lesser extent and this as a result of improvements or new inspiration arising from comments and discussions. In previous larger conferences on macromolecules, polyelectrolytes constituted only a marginal problem and few were the individual communications or short was the time allotted to this subject. In other meetings of a biophysical character the uses of the

techniques of charged macromolecules have been exposed with less attention given to the theories or to the creation or interpretation of these techniques AU of us felt that the time had come to enumerate and to evaluate this increasing science of polyelectrolytes which has become of major interest During the whole period of the Institute physical chemists discussed their mutual problems for more than a week and of ten far into the night One of the advantages of such an Institute is to enable the Directors and the members of the Scientific Committee to establish a logical order in the lectures this order has been respected in the present edition Polyelectrolytes and their Applications A. Rembaum, E. Sélégny, 2012-12-06

Polyelectrolytes and their Applications is the second volume in the series Charged and Reactive Polymers The important areas of polyelectrolyte applications i e biomedicine water purification petroleum recovery and drag reduction are presented along with discussions of the fundamental principles of polyelectrolyte chemistry and physics This book should be of interest to scientists such as physicians biochemists polymer chemists and chemical engineers involved in applications of these materials The first part of the book is devoted to the basic properties of polyelectrolytes in general namely to the factors influencing the chain conformation of charged polymers in solution and to their counterion selectivity It also contains methods of synthesis and new concepts of charge stabilized polymer colloids and of polyelectrolyte catalysis The second part describes recent information on the properties and biological effects of already well known natural polyelectrolytes such as heparin and DNA and recently developed polymers such as pyran and polyionenes The effects of poly anions and polycations on normal and transformed cells as well as on acetylcholine receptors follow This part is of particular interest to scientists involved in biological research *The Influence of Polymer Additives on Velocity and Temperature Fields* Bernhard

Gampert, 2012-12-06 The Symposium on The Influence of Polymer Additives on Velocity and Temperature Fields was proposed to the General Assembly of the International Union of Theoretical and Applied Mechanics IUTAM by the Gesellschaft für Angewandte Mathematik und Mechanik GAMM The Symposium was held under the auspices of IUTAM in association with the Deutsche Rheologische Gesellschaft DRG with responsibility for the organization lying with B Gampert Universität GH Essen The main aim of this IUTAM Symposium was to consider the fundamental aspects of the phenomena that occur when small amounts of polymers are added to turbulent flows turbulent drag reduction and laminar porous media flows In particular attention was devoted to the influence of molecular parameters of the polymers and solution properties especially the elongational viscosity on turbulent flow and laminar porous media flow the influence of polymers on the turbulence structure in polymer drag reduction **Optimization of Micro Processes in Fine Particle Agglomeration by Pelleting Flocculation** Benjamin Oyegbile, 2016-06-22

Efficient particle separation in order to meet stringent regulatory standards represent one of the biggest challenges facing the process industry operators today Emerging environmental problems such as climate change population growth and natural resource depletion make it more compelling to undertake research into alternative phase separation techniques and optimization of existing ones Meeting this challenge requires

innovative revolutionary and integrated approach in the design and optimization of various unit processes in fine particle separation Flocculation is widely used as an effective phase separation technique across many process industries such as water and wastewater treatment and in minerals processing In this work a new pre treatment technique was developed using a patented bench scale reactor unit as a technical proof of concept Furthermore the book provides a valuable insight into the hydrodynamics and fluid particle interactions within the agglomeration units The relatively high solids content of the stable pellets approximately 30 % and very low residual turbidity of the post sedimentation supernatant 7 NTU clearly demonstrate the potential of this technique In addition to significantly improving the subsequent solid liquid separation efficiency this study also showed that the effluent can be recycled back into the sewer network or utilized for non portable reuse The findings obtained from this research will be extremely useful in the scaling up and optimization of the reactor system

Battelle Technical Review Battelle Memorial Institute,1957 *Polymer Colloids* Robert Fitch,2012-12-06 Colloid Science is an ancient art Unfortunately many scientists still regard it as such We hope that this book will dispel all such illusions by providing convincing evidence that a quiet renaissance has occurred The New Colloid Science is based on rigorous quantitative theory and works with extremely well de fined experimental systems The former was first made possible by the advent of the Derjaguin Landau Verwey Overbeek DLVO theory of the stability of lyophobic colloids in 1948 This is based on a consideration of the electrostatic interactions among colloidal par ticles bearing fixed charges in a medium containing moving counter ions The Hamiltonian formulation of this model by Weiss Mock and Moon herein is a significant development in our theoretical pro gress During about the same period we have advanced experimentally from poorly defined glue like systems to monodisperse colloids synthesized for the first time in 1955 when J W Vanderhoff and E B Bradford announced their polystyrene colloids with extremely narrow particle size distributions Vanderhoff and his coworkers have now set another milestone by fully characterizing the surfaces of these systems as described in this monograph The revolution is snowballing Krieger and his coworkers have shown that the opalescent colors exhibited by deionized monodis perse latexes are due to Bragg diffraction of these liquid crystal systems that they exhibit reversible melting and that they may serve as macroscopic models for order disorder phenomena **Interfacial Science for Geosystems Engineers** Kishore K. Mohanty,William R. Rossen,Chun Huh,2024-06-20 Interfacial Science for Geosystems Engineers provides geoscientists the connections between the nano scale physico chemical interactions between fluids and minerals and the core field scale observations to manage energy extraction water resources and subsurface storage timely topics central to the energy transition Packed with latest research and recent developments chapter learning objectives and illustrative diagrams tables and charts throughout this specialized volume will help geosystems engineers tackle the above challenges by systematically going through the basics of surface and interfacial tension capillarity surfactants surface free energy adsorption electrokinetics colloidal stability equilibrium and stability of thin liquid films wettability microemulsions emulsions and foams

and polymers for subsurface applications Useful as a teaching training or reference text Interfacial Science for Geosystems Engineers prepares today s subsurface scientists and engineers to tackle two pressing problems in the energy transition by introducing recent developments on how to remove CO₂ from our environment and how to wean ourselves off fossil energy while meeting growing energy demands Describes fundamentals and recent advances in interface and nanoparticle colloid dispersion science Offers critical analysis of the latest research and developments relevant to extracting low carbon and other energy materials from and store CO₂ and H₂ in subsurface formations Helps guide geosystems especially energy engineers on how to solve the problems they encounter in the rapidly evolving Energy Transition *Biomedical Engineering Handbook 2* Joseph D. Bronzino, 2000-02-15 *Industrial Applications of Renewable Biomass Products* Silvia Nair Goyanes, Norma Beatriz D'Accorso, 2017-08-10 This book effectively links the latest scientific advances to current technological applications of polymers mainly focusing on biodegradable polymers obtained from biomass The individual chapters were written by academic and industry researchers alike introducing readers to topics that have received little attention in the literature to date Key topics covered include polymers used in various areas such as food packaging pharmaceuticals energy production and the cosmetics industry as well as the treatment of aqueous effluents Maro Polymer Notes ,1998 *Journal American Chemical Society*, 2004 **Analytical Ultracentrifugation VI** W. Borchard, A. Straatmann, 2002-02-11 This volume includes 20 contributions of the 12th meeting on Analytical Ultracentrifugation from March 1 2 2001 in Duisburg Germany Various fields of ultracentrifugation are covered concerning research problems in biochemistry biophysical chemistry and macromolecular chemistry as well as interacting systems New investigations concerning the sedimentation theory are presented The phase transition of gels is dealt with as is the sedimentation diffusion equilibrium of gels One section contains the hydrodynamics of biopolymers Adhesion and Adhesives ,1954

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