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Viscosimetry of Polymers and Polyelectrolytes



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**Werner-Michael Kulicke, Christian
Clasen**

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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 Hosseini 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. fine 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

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 **Journal American Chemical Society**,2004 **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 **Adhesion and Adhesives** ,1954 **Maro Polymer Notes** ,1998 **Physics Briefs** ,1990 **Chemical Abstracts** ,1990 **Current Awareness in Particle Technology** ,1991 **Corrosion** ,1988 Issues include special section called Corrosion abstracts

 Agrindex ,1992 *Viscosity of Polymer Solutions* Miloslav Bohdanecký,Josef Kovář,1982 *The Viscosity of Polymers and Their Concentrated Solutions* Guy C. Berry,1968 *Viscoelasticity of Polymers* Kwang Soo Cho,2016-05-30 This book offers a comprehensive introduction to polymer rheology with a focus on the viscoelastic characterization of polymeric materials It contains various numerical algorithms for the processing of viscoelastic data from basic principles to advanced examples which are hard to find in the existing literature The book takes a multidisciplinary approach to the study of the viscoelasticity of polymers and is self contained including the essential mathematics continuum mechanics polymer science and statistical mechanics needed to understand the theories of polymer viscoelasticity It covers recent achievements in polymer rheology such as theoretical and experimental aspects of large amplitude oscillatory shear LAOS and numerical methods for linear viscoelasticity as well as new insights into the interpretation of experimental data Although the book is

balanced between the theoretical and experimental aspects of polymer rheology the author s particular interest in the theoretical side will not remain hidden Aimed at readers familiar with the mathematics and physics of engineering at an undergraduate level the multidisciplinary approach employed enables researchers with various scientific backgrounds to expand their knowledge of polymer rheology in a systematic way

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