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Thermodynamics of Polymer Solutions Polymer Solutions, Blends, and Interfaces Polymer Solutions Polymer Solutions Physical Chemistry of Polymer Solutions Thermodynamics of Polymer Solutions Microdomains in Polymer Solutions Modern Theory of Polymer Solutions Polymers in Solution Polymer Solutions CRC Handbook of Thermodynamic Data of Polymer Solutions at Elevated Pressures Textbook of Polymer Science Fluid Mechanics of Surfactant and Polymer Solutions Handbook of Polymer Solution Thermodynamics Phenomenology of Polymer Solution Dynamics Polymer Characterization/Polymer Solutions CRC Handbook of Thermodynamic Data of Polymer Solutions, Three Volume Set Helical Wormlike Chains in Polymer Solutions Order in Polymer Solutions Polymer Thermodynamics The Fractal Physical Chemistry of Polymer Solutions and Melts Macromolecular Solutions Polymer Solutions CRC Handbook of Liquid-Liquid Equilibrium Data of Polymer Solutions Light Scattering from Polymer Solutions and Nanoparticle Dispersions Polymer Characterization/Polymer Solutions Viscosity of Polymer Solutions Excluded Volume Effects in Polymer Solutions PVT-Data and Miscellaneous Properties of Polymer Solutions Computational Studies, Nanotechnology, and Solution Thermodynamics of Polymer Systems Electro-Osmosis of Polymer Solutions CRC Handbook of Enthalpy Data of Polymer-Solvent Systems Excluded Volume Effects in Polymer Solutions CRC Handbook of Phase Equilibria and Thermodynamic Data of Aqueous Polymer Solutions Functional Polymer Solutions and Gels Light Scattering from Polymer Solutions and Nanoparticle Dispersions Handbook of Diffusion and Thermal Properties of Polymers and Polymer Solutions CRC Handbook of Thermodynamic Data of Aqueous Polymer Solutions CRC Handbook of Phase Equilibria and Thermodynamic Data of Polymer Solutions at Elevated Pressures Polymers in Solution

CRC Handbook of Phase Equilibria and Thermodynamic Data of Polymer Solutions at Elevated Pressures Mar 17 2021 There is a continuing interest in thermodynamic properties of polymer solutions at elevated pressures. This updated book provides newly published experimental data from the last decade. It includes nearly 500 newly published references containing approximately 175 new vapor-liquid equilibrium data sets, 25 new liquid-liquid equilibrium data sets, 540 new high-pressure fluid phase equilibrium data sets, 60 new data sets describing PVT properties of polymers, and 20 new data sets with densities or excess volumes.

CRC Handbook of Phase Equilibria and Thermodynamic Data of Aqueous Polymer Solutions Aug 22 2021 A large amount of experimental data has been published since the debut of the original CRC Handbook of Thermodynamic Data of Aqueous Polymer Solutions. Incorporating new and updated material, the CRC

Handbook of Phase Equilibria and Thermodynamic Data of Aqueous Polymer Solutions provides a comprehensive collection of thermodynamic data of polymer

Polymer Thermodynamics Nov 05 2022 Making Flory-Huggins Practical: Thermodynamics of Polymer-Containing Mixtures, by B. A. Wolf * Aqueous Solutions of Polyelectrolytes: Vapor-Liquid Equilibrium and Some Related Properties, by G. Maurer, S. Lammertz, and L. Ninni Schäfer * Gas-Polymer Interactions: Key Thermodynamic Data and Thermophysical Properties, by J.-P. E. Grolier, and S. A.E. Boyer * Interfacial Tension in Binary Polymer Blends and the Effects of Copolymers as Emulsifying Agents, by S. H. Anastasiadis * Theory of Random Copolymer Fractionation in Columns, by Sabine Enders * Computer Simulations and Coarse-Grained Molecular Models Predicting the Equation of State of Polymer Solutions, by K. Binder, B. Mognetti, W. Paul, P. Virnau, and L. Yelash * Modeling of Polymer Phase Equilibria Using Equations of State, by G. Sadowski

Polymers in Solution Feb 13 2021 This book is devoted to the static properties of flexible polymers in solution, presenting the vast theoretical and experimental progress made in recent years. Work in this area has been especially fruitful because long polymer chains show a universality in their behavior when in solution, despite the variety in their chemical composition and physical properties. The authors include the results of new experimental techniques such as photon and neutron scattering, and the use of computer simulations. This work is the result of a collaboration between a theoretician and an experimentalist, who have both worked for many years on polymer solutions.

CRC Handbook of Enthalpy Data of Polymer-Solvent Systems Oct 24 2021 The CRC Handbook of Enthalpy Data of Polymer-Solvent Systems presents data that is as essential to the production, process design, and use of polymers as it is to understanding the physical behavior and intermolecular interactions in polymer solutions and in developing thermodynamic polymer models. Providing an all-encompassing collection

Polymer Solutions Aug 02 2022

Polymer Characterization/Polymer Solutions Mar 09 2023

Phenomenology of Polymer Solution Dynamics Apr 10 2023 Presenting a completely new approach to examining how polymers move in non-dilute solution, this book focuses on experimental facts, not theoretical speculations, and concentrates on polymer solutions, not dilute solutions or polymer melts. From centrifugation and solvent dynamics to viscosity and diffusion, experimental measurements and their quantitative representations are the core of the discussion. The book reveals several experiments never before recognized as revealing polymer solution properties. A novel approach to relaxation phenomena accurately describes viscoelasticity and dielectric relaxation and how they depend on polymer size and concentration. Ideal for graduate students and researchers interested in the properties of polymer solutions, the book covers real measurements on practical systems, including the very latest results. Every significant experimental method is presented in considerable detail, giving

unprecedented coverage of polymers in solution.

CRC Handbook of Thermodynamic Data of Polymer Solutions, Three Volume Set Feb 08 2023 Providing valuable insight on physical behavior of polymer solutions, intermolecular interactions, and the molecular nature of mixtures, each volume in this one-of-a-kind handbook brings together reliable, easy-to-use entries, references, tables, examples, and appendices on experimental data from hundreds of primary journal articles, dissertations,

CRC Handbook of Liquid-Liquid Equilibrium Data of Polymer Solutions Jul 01 2022 Thermodynamic data form the basis for separation processes used in different fields of science and industry, from specialty chemicals to foods and pharmaceuticals. One obstacle to developing new production processes, products, or optimization is the lack, or inaccessibility, of experimental data related to phase equilibrium. Access More Than 1200 Data Sets, Including 810 Binary Systems, 325 Ternary Systems, and 25 Quaternary (or Higher) Systems The CRC Handbook of Liquid-Liquid Equilibrium Data of Polymer Solutions provides a thorough and up-to-date compilation of experimental liquid-liquid equilibrium (LLE) data and their original sources. Arranged in a consistent format, the handbook provides convenient access to cloud-point and coexistence data as well as upper and lower critical solution temperatures and important demixing data for each system. An Excellent Companion to the Author's Previous Collections of Thermodynamic Data! While the author's previous data compilations center around specific types of polymer systems, Wohlfharth's latest work distinguishes itself by focusing instead on representing LLE data for all types of polymer systems in a single source.

CRC Handbook of Thermodynamic Data of Polymer Solutions at Elevated Pressures Aug 14 2023 This handbook provides the only complete collection of high-pressure thermodynamic data that is essential for understanding polymer solutions. It contains data on vapor-liquid equilibria and gas solubilities, liquid-liquid equilibria, high-pressure fluid phase equilibria for polymer systems in supercritical fluids, enthalpic and volumetric data, as well as second virial coefficients all at elevated pressures. It covers all areas needed by researchers and engineers who handle polymer systems in supercritical fluids; materials science and technological applications such as computerized predictive packages; and chemical and biochemical processes, such as synthesis and characterization, fractionation, separation, purification, and finishing of polymers and related materials.

Excluded Volume Effects in Polymer Solutions Feb 25 2022 Schäfer gives a concise overview of the static equilibrium properties of polymer solutions. In the first part diagrammatic perturbation theory is derived from scratch. The second part illustrates the basic ideas of the renormalization group (RG). The crucial role of dilation invariance is stressed. The more efficient method of dimensional regularization and minimal subtractions is worked out in part three. The fourth part contains a unified evaluation of the theory to the one loop level. All the important experimental quantities are discussed in detail, and the results are compared extensively to experiment. Empirical methods of

data analysis are critically discussed. The final (fifth) part is devoted to extensions of theory. The first three parts of this book may serve as the basis of a course. Parts four and five are hoped to be useful for detailed quantitative evaluations of experiments.

CRC Handbook of Thermodynamic Data of Aqueous Polymer Solutions Apr 17 2021 Providing the necessary basis for any developments of theoretical thermodynamic models, this book provides a complete collection of practical thermodynamic data for a variety of applications, including: basic and applied chemistry, chemical engineering, thermodynamic research, computational modeling, membrane science and technology, and environmental and green chemistry. The data -- which includes such developments as vapor-liquid and liquid-liquid equilibria, low-and high-pressure equilibrium data, enthalpic and volumetric data, and second virial coefficients -- is necessary when studying intermolecular interactions and gaining insights into the molecular nature of mixtures.

Microdomains in Polymer Solutions Dec 18 2023 In the first half of this century, great strides were made in under standing the behavior of polymers in dilute solutions or in the solid state. Concentrated solutions, on the other hand, were commonly regarded as mainly of interest to practitioners, being too complex for the rigorous application of statistical theory. Given the preoccupation with the isolated polymer molecule and the attendant focus on the state of infinite dilution, it is not surprising that aggregation, and inter-polymer associ ation in general, was the bugaboo of experimentalists. These attitudes have changed remarkably over the last few decades. The application of sealing theory to polymer solutions has stimulated investigation of the semi-dilute state, and the region between infinite dilution and swollen gel is no longer perceived as terra incognita. New techniques, such as dynamic light scattering, have proven to be of much value in such investigations. At the same time, it has become clear that consideration of strong inter- and intra-polymer forces, superimposed on the familiar description of the statistical chain, is prerequisite to the application of polymer science to numerous systems of interest. Para mount among these, of course, are biopolymers, their complexes and assemblies. The isolated random coil must be viewed as tl rarity in nature.

Handbook of Polymer Solution Thermodynamics May 11 2023 Created for engineers and students working with pure polymers and polymer solutions, this handbook provides up-to-date, easy to use methods to obtain specific volumes and phase equilibrium data. A comprehensive database for the phase equilibria of a wide range of polymer-solvent systems, and PVT behavior of pure polymers are given, as are accurate predictive techniques using group contributions and readily available pure component data. Two computer programs on diskettes are included. POLYPROG implements procedures given for prediction and correlation for specific volume of pure polymer liquids and calculation of vapor-liquid equilibria (VLE) of polymer solutions. POLYDATA provides an easy method of accessing the data contained in the many databases in the book. Both disks require a computer with a math coprocessor. This handbook is a valuable resource in the design and operation of many polymer

processes, such as polymerization, devolatilization, drying, extrusion, and heat exchange. Special Details: Hardcover with Disks. Special offer: Purchase this book along with X-131, Handbook of Diffusion and Thermal Properties of Polymers and Polymer Solutions and receive a 20 percent discount off the list or member price.

Textbook of Polymer Science Jul 13 2023 This Third Edition of the classic, best-selling polymer science textbook surveys theory and practice of all major phases of polymer science, engineering, and technology, including polymerization, solution theory, fractionation and molecular-weight measurement, solid-state properties, structure-property relationships, and the preparation, fabrication and properties of commercially-important plastics, fibers, and elastomers.

Helical Wormlike Chains in Polymer Solutions Jan 07 2023 This book presents the "helical wormlike chain" model – a general model for both flexible and semiflexible polymer chains. It explains how statistical-mechanical, hydrodynamic, and dynamic theories of their solution properties can be developed on the basis of this model. This new second edition has been carefully updated and thoroughly revised. It includes a new chapter covering "Simulation and More on Excluded-Volume Effects", as well as the discussion of new experimental data and the application of the theory to ring polymers. The authors provide analysis of important recent experimental data by the use of their theories for flexible polymers over a wide range of molecular weights, including the oligomer region, and for semiflexible polymers, including biological macromolecules such as DNA. This is all clearly illustrated using a reasonable number of theoretical equations, tables, figures, and computer-aided forms, which support the understanding of the basic theory and help to facilitate its application to experimental data for the polymer molecular characterization.

Polymer Solutions, Blends, and Interfaces May 23 2024 The behaviour of polymers in multi-component and multiphase systems such as solutions, blends and interfaces derived from both natural and synthetic sources and the subsequent influence of this on their physical properties is the theme of this book. Important new material on multiphase polymer systems such as block copolymers and liquid crystalline polymers is provided, and the solution and surface properties of enzymes and surface active polymers is described both theoretically and experimentally. The application of theory to the development of new cellulosic materials is particularly noteworthy. The relationship between end-use properties, such as adhesion, wetting, and colloidal stability, and molecular structure at the interface is addressed. Examples include the capillary pressure of nylon microporous membranes, a new technique for characterizing the adhesion between incompatible polymers, and the influence of the glass transition temperature at the fiber/matrix interface on interfacial shear strength. Characterization of polymer films, both electrochemically and via optical techniques is covered and the interactions of amphiphilic ions with polyacrylate polymer are described. The final two chapters introduce the topic of enzyme mobility at an interface and show how this may affect their role as biological catalysts.

Fluid Mechanics of Surfactant and Polymer Solutions Jun 12 2023 Colloidal

systems and dispersions are of great importance in oil recovery, waist water treatment, coating, food and beverage industry, pharmaceutical industry, medicine, environmental protection etc. Colloidal systems and dispersions are always multi-component and multiphase systems. In these systems at least one dimension is in a range of colloidal forces action: colloidal dispersions/emulsions are examples of three dimensional colloidal systems, while thin liquid films are examples of one dimensional colloidal systems. The contribution presented in this issue deals with flow, distribution and redistribution, coating and deposition of surfactant and polymer molecules in colloidal systems. The book presents reviews of recent advances and trends by well-know scientists and engineers in this area.

Polymer Solutions Mar 21 2024 A broad examination of the physical properties of solutions Polymer Solutions: An Introduction to Physical Properties offers a fresh, inclusive approach to teaching the fundamentals of physical polymer science. Students, instructors, and professionals in polymer chemistry, analytical chemistry, organic chemistry, engineering, materials, and textiles will find Iwao Teraoka's text at once accessible and highly detailed in its treatment of the properties of polymers in the solution phase. Teraoka's purpose in writing Polymer Solutions is twofold: to familiarize the advanced undergraduate and beginning graduate student with basic concepts, theories, models, and experimental techniques for polymer solutions; and to provide a reference for researchers working in the area of polymer solutions as well as those in charge of chromatographic characterization of polymers. The author's incorporation of recent advances in the instrumentation of size-exclusion chromatography, the method by which polymers are analyzed, renders the text particularly topical. Subjects discussed include: * Real, ideal, Gaussian, semirigid, and branched polymer chains * Polymer solutions and thermodynamics * Static light scattering of a polymer solution * Dynamic light scattering and diffusion of polymers * Dynamics of dilute and semidilute polymer solutions Study questions at the end of each chapter not only provide students with the opportunity to test their understanding, but also introduce topics relevant to polymer solutions not included in the main text. With over 250 geometrical model diagrams, Polymer Solutions is a necessary reference for students and for scientists pursuing a broader understanding of polymers.

Light Scattering from Polymer Solutions and Nanoparticle Dispersions Jun 19 2021 Light scattering is a very powerful method for characterizing the structure of polymers and nanoparticles in solution. As part of the Springer Laboratory series, this book provides a simple-to-read and illustrative textbook probing the seemingly very complicated topic of light scattering from polymers and nanoparticles in dilute solution, and goes further to cover some of the latest technical developments in experimental light scattering.

Electro-Osmosis of Polymer Solutions Nov 24 2021 This thesis focuses on the theoretical description of electro-osmosis of polymer solutions. In particular, it emphasizes the importance of considering non-uniform profiles of the solution viscosity and polymer concentration near a solid surface. The thesis begins with an introduction

to fundamental theories and experimental observations for beginners in this field, concerning electrolyte solutions, electric double layers, and electrokinetics. In Chapter 2, the author discusses the linear response of electro-osmotic flow with respect to applied electric fields in aqueous polyelectrolyte solutions, and predicts a possibility of flow reversal caused by oppositely charged polyelectrolytes adsorbed on a charged surface. In Chapter 3, the author extends the discussion to non-linear electro-osmotic flow driven by applied electric fields in neutral polymer solutions. The dynamics of polymers are modeled and simulated using Brownian dynamics and kinetic theory. Finally, the thesis is summarized in Chapter 4. The introduction provides a comprehensive review of electrokinetics for graduate students and researchers interested in soft matter physics. An additional attraction is that readers can effectively learn various theoretical approaches to electro-osmosis.

Light Scattering from Polymer Solutions and Nanoparticle Dispersions May 31 2022 Light scattering is a very powerful method for characterizing the structure of polymers and nanoparticles in solution. As part of the Springer Laboratory series, this book provides a simple-to-read and illustrative textbook probing the seemingly very complicated topic of light scattering from polymers and nanoparticles in dilute solution, and goes further to cover some of the latest technical developments in experimental light scattering.

Viscosity of Polymer Solutions Mar 29 2022

Polymer Solutions Apr 22 2024 Remarkable progress has been made in the last two decades in the study of concentrated polymer solutions leading to many new concepts, theories, and techniques in the field of polymer science. Any description of the theory of polymer solutions is now insufficient unless both concentrated and dilute solutions are given equal attention. This book reviews recent developments in the study of dilute and concentrated polymer solutions, emphasizing mainly the typical equilibrium and steady-state dynamic properties of linear homopolymers. The author strives to clarify the gap which still remains open between current theories and well-documented experimental results, thereby stimulating further efforts toward a more accurate understanding of polymer solutions. The book contains a collection of typical experimental data and their comparison with current theories, molecular or phenomenological, a summary of recent advances in the physics of concentrated polymer solutions and melts, and an elementary account of the renormalization group theory as applied to dilute solutions. Polymer Solutions should prove invaluable as a reference work for graduate students and specialists in this field.

Functional Polymer Solutions and Gels Jul 21 2021 "Functional Polymer Solutions and Gels-Physics and Novel Applications" contains a broad range of articles in this vast field of polymer and soft matter science. It shows insight into the field by highlighting how sticky (non-covalent) chemical bonds can assemble a seemingly water-like liquid into a gel, how ionic liquids influence the gelation behavior of poly(N-Isopropylacrylamide) as well as how the molecular composition of functional copolymers is reflected in the temperature-responsiveness. These physics were

augmented by theoretical works on drag-reduction. Also, drug-release - an improved control of how fast or dependent on an external factor - and antibacterial properties were the topic of several works. Biomedical applications on how cell growth can be influenced and how vessels in biological systems, e.g., blood vessels, can be improved by functional polymers were complemented with papers on tomography by using gels. On totally different lines, also the topic of how asphalt can be improved and how functional polymers can be used for the enrichment and removal of substances. These different papers are a good representation of the whole area of functional polymers.

Excluded Volume Effects in Polymer Solutions Sep 22 2021

Polymer Characterization/Polymer Solutions Apr 29 2022

Polymers in Solution Oct 16 2023 Polymers in Solution was written for scientists and engineers who have serious research interests in newer methods for characterization of polymer solutions, but who are not seasoned experts in the theoretical and experimental aspects of polymer science. In particular, it is assumed that the reader is not familiar with the development of theoretical notions in conformational statistics and the dynamics of chainlike molecules; how these two seemingly diverse theoretical topics are related; and the role played by polymer-solvent interactions. Chapter 1 thus presents background material that introduces most of the essential concepts, including some of the mathematical apparatus most commonly used in these areas of theory. This introduction is followed by five chapters that are more closely related to particular experimental techniques. These chapters introduce further theoretical notions as needed. Three of the chapters present con siderable detail on the experimental methods, while two other chapters deal more with the interpretation of experimental results in terms of current theories. Although neutron scattering has become an almost standard technique for the study of conformational properties of macromolecules in the solid state, there has been less emphasis on its application for characterization of polymer molecules in solution. Chapter 4 covers this growing area of application.

Polymer Solutions Sep 15 2023

Handbook of Diffusion and Thermal Properties of Polymers and Polymer Solutions May 19 2021 Accompanying computer disk contains procedures needed in order to navigate the various screens for implementation of the different correlative or predictive methods, and how to access the experimental base

Thermodynamics of Polymer Solutions Jan 19 2024 This is the first self-contained book on the thermodynamics and critical phenomena of polymer solutions, ranging from the rather elementary level to the advanced and up-to-date level. The book covers the rigorous theories of phase equilibrium, computer experiments based on these theories, as well as actual experiments, molecular fractionation and application to membrane and fiber production. An extensive list of references and literature data on the thermodynamic interaction x-parameter, critical point, fractionation and polymer blends is also provided. This book should prove invaluable for courses on polymer science, thermodynamics and polymer solutions at graduate, university and polytechnic level.

Order in Polymer Solutions Dec 06 2022

Physical Chemistry of Polymer Solutions Feb 20 2024 This book is mainly concerned with building a narrow but secure ladder which polymer chemists or engineers can climb from the primary level to an advanced level without great difficulty (but by no means easily, either). This book describes some fundamentally important topics, carefully chosen, covering subjects from thermodynamics to molecular weight and its distribution effects. For help in self-education the book adopts a "Questions and Answers" format. The mathematical derivation of each equation is shown in detail. For further reading, some original references are also given. Numerous physical properties of polymer solutions are known to be significantly different from those of low molecular weight solutions. The most probable explanation of this obvious discrepancy is the large molar volume ratio of solute to solvent together with the large number of consecutive segments that constitute each single molecule of the polymer chains present as solute. Thorough understanding of the physical chemistry of polymer solutions requires some prior mathematical background in its students. In the original literature, detailed mathematical derivations of the equations are universally omitted for the sake of space-saving and simplicity. In textbooks of polymer science only extremely rough schemes of the theories and then the final equations are shown. As a consequence, the student cannot learn, unaided, the details of the theory in which he or she is interested from the existing textbooks; however, without a full understanding of the theory, one cannot analyze actual experimental data to obtain more basic and realistic physical quantities. In particular, if one intends to apply the theories in industry, accurate understanding and ability to modify the theory are essential.

Computational Studies, Nanotechnology, and Solution Thermodynamics of Polymer Systems Dec 26 2021 This volume combines two symposia, Computational Polymer Science and Nanotechnology, and Solution Thermodynamics of Polymers, both held at the Southeastern Regional Meeting of the American Chemical Society, October 17-20, 1999, in Knoxville, Tennessee. Both symposia brought together leaders, pioneers, and promising researchers in the area of the physical chemistry of polymers. The first meeting concentrated on computational techniques, while the other presented recent work on both experimental and theoretical works in the physical chemistry of polymers.

Thermodynamics of Polymer Solutions Jun 24 2024

PVT-Data and Miscellaneous Properties of Polymer Solutions Jan 27 2022 Polymers belong to an essential material group with many applications not only for polymer manufacturers but also in physics, chemistry, medicine and engineering techniques. The presented volume is the second part of a book series connecting a complete data collection with short but precise descriptions of the different quantities and their significances. The experimental determination of the physical quantities is given as well as the influence to other physical quantities. This volume helps to choose the best material for all kinds of applications also for those which are not mentioned in polymer material books. It is focused on polymers in solutions and is intended for scientists and researchers who work on practical problems in the polymer field and who are in the need of numerical data on polymer properties.

The Fractal Physical Chemistry of Polymer Solutions and Melts Oct 04 2022 This book provides an important structural analysis of polymer solutions and melts, using fractal analysis. The book covers the theoretical fundamentals of macromolecules fractal analysis. It then goes on to discuss the fractal physics of polymer solutions and the fractal physics of melts. The intended audience of the book includes specialists in chemistry and physics of polymer synthesis and those in the field of polymers and polymer composites processing.

Modern Theory of Polymer Solutions Nov 17 2023

Macromolecular Solutions Sep 03 2022 Macromolecular Solutions: Solvent-Property Relationships in Polymers is a collection of papers presented at a symposium on Macromolecular Solutions, held New York City on August 23-28, 1981, sponsored by the American Chemical Society at its 182nd national meeting. This book is composed of 19 chapters and begins with discussions on the concept, application, and analysis of solubility parameters of polymers. The succeeding chapters deal with the role of solubility parameters in polymer coating design and stress cracking of nylon. Considerable chapters are devoted to the preparation, properties, reactions, and analysis of various polymers and copolymers. These topics are followed by surveys of the polymer-surfactant interaction effect on polymer solution properties and the effects of methanol-gasoline mixtures on elastomers. The final chapters describe the residual solvent content effect on dissolution kinetics of polymers; the application of excimer fluorescence to measure polymer-solvent interactions; and a general procedure for the calculation of thermodynamic properties of polymer solutions. This book will be of great value to polymer chemists, manufacturers, and researchers.

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