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this book offers a valuable reference source to graduate and post graduate students engineering students research scholars polymer engineers from industry the book provides the reader with current developments of theoretical models describing the thermodynamics polyelectrolytes as well as experimental findings a particular emphasis is put on the rheological description of polyelectrolyte solutions and hydrogels

this is a version of gevrey s classical treatise on the heat equations included in this volume are discussions of initial and or boundary value problems numerical methods free boundary problems and parameter determination problems the material is presented as a monograph and or information source book after the first six chapters of standard classical material

each chapter is written as a self contained unit except for an occasional reference to elementary definitions theorems and lemmas in previous chapters

this book contains a wealth of useful information on current rheology research by covering a broad variety of rheology related topics this e book is addressed to a wide spectrum of academic and applied researchers and scientists but it could also prove useful to industry specialists the subject areas include polymer gels food rheology drilling fluids and liquid crystals among others

regenerative engineering with its ability to foster novel therapeutic techniques and strategies has emerged as the most versatile and innovative technology of the 21st century the past few years have seen a significant interest in the development of injectable hydrogels as a delivery system to realize the dream of regenerative engineering the book will explain synthetic approaches towards developing injectable hydrogels and the clinical implications and applications of injectable hydrogels for engineering various tissues injectable hydrogels for regenerative engineering is the first of its kind to bring together the fields of injectable hydrogels and regenerative engineering to give a perspective of the emerging therapeutic strategies for a wide audience

this book provides an interdisciplinary overview of a new and broad class of materials under the unifying name nanostructured soft matter it covers materials ranging from short amphiphilic molecules to block copolymers proteins colloids and their composites microemulsions and bio inspired systems such as vesicles

the progress in polymer science is revealed in the chapters of polymer science a comprehensive reference ten volume set in volume 1 this is reflected in the improved understanding of the properties of polymers in solution in bulk and in confined situations such as in thin films volume 2 addresses new characterization techniques such as high resolution optical microscopy scanning probe microscopy and other procedures for surface and interface characterization volume 3 presents the great progress achieved in precise synthetic polymerization techniques for vinyl monomers to control macromolecular architecture the development of metallocene and post metallocene catalysis for olefin polymerization new ionic polymerization procedures and atom transfer radical polymerization nitroxide mediated polymerization and reversible addition fragmentation chain transfer systems as the most often used controlled living radical polymerization methods volume 4 is devoted to kinetics mechanisms and applications of ring opening polymerization of heterocyclic monomers and cycloolefins romp as well as to various less common polymerization techniques polycondensation and non chain polymerizations including dendrimer synthesis and various click procedures are covered in volume 5 volume 6 focuses on several aspects of controlled macromolecular architectures and soft nano objects including hybrids and bioconjugates many of the achievements would have

not been possible without new characterization techniques like afm that allowed direct imaging of single molecules and nano objects with a precision available only recently an entirely new aspect in polymer science is based on the combination of bottom up methods such as polymer synthesis and molecularly programmed self assembly with top down structuring such as lithography and surface templating as presented in volume 7 it encompasses polymer and nanoparticle assembly in bulk and under confined conditions or influenced by an external field including thin films inorganic organic hybrids or nanofibers volume 8 expands these concepts focusing on applications in advanced technologies e g in electronic industry and centers on combination with top down approach and functional properties like conductivity another type of functionality that is of rapidly increasing importance in polymer science is introduced in volume 9 it deals with various aspects of polymers in biology and medicine including the response of living cells and tissue to the contact with biofunctional particles and surfaces the last volume is devoted to the scope and potential provided by environmentally benign and green polymers as well as energy related polymers they discuss new technologies needed for a sustainable economy in our world of limited resources provides broad and in depth coverage of all aspects of polymer science from synthesis polymerization properties and characterization methods and techniques to nanostructures sustainability and energy and biomedical uses of polymers provides a definitive source for those entering or researching in this area by integrating the multidisciplinary aspects of the science into one unique up to date reference work electronic version has complete cross referencing and multi media components volume editors are world experts in their field including a nobel prize winner

intrinsically disordered proteins volume 611 the latest release in the methods in enzymology series highlights new advances in the field with this new volume presenting interesting chapters on topics of interest including the characterization of structure function relationships in the intrinsically disordered protein complexin distances distance distributions and ensembles of idps from single molecule fret biophysical characterization of disordered protein liquid phases the use of mass spectrometry to examine idps unique insights and caveats fluorescence depolarization kinetics to study conformational preference structural plasticity and membrane binding of intrinsically disordered proteins characterizing the function of intrinsically disordered proteins in the circadian clock and more breadth of experimental approaches and systems that will be covered the expertise of the contributors writing the articles

macromolecules in solution and brownian relativity illustrates the recent picture of statistical physics of polymers and polymer solutions that emerges from some paradigms of contemporary science joint together among its principal aims are discussing the consequences of a novel self diffusion theory which benefits from an extension towards relativistic like principles and the generalization of usual concepts met in polymer science in

terms of geometry alone the monograph gives the whole fundamentals necessary to handle the view proposed which is set in the final chapters all the formers see about to provide the reader with a comprehensive treatatation of the necessary fundamentals of classical relativistic quantum and statistical mechanics among the most important mechanical theories ever developed a chapter on the brownian movement and another on macromolecules prepare the ground that is specific to face universality and scaling behaviors in polymer solutions the scope of the book is therefore two fold on the one hand it wishes to involve the readers and scholars into a new research on polymer physics and chemistry on the other to get close chemical physicists and physical chemists to disciplines which traditionally are far from their direct fields of interest cross disciplinarity novelty potentiality

this unique text discusses the solution self assembly of block copolymers and covers all aspects from basic physical chemistry to applications in soft nanotechnology recent advances have enabled the preparation of new materials with novel self assembling structures functionality and responsiveness and there have also been concomitant advances in theory and modelling the present text covers the principles of self assembly in both dilute and concentrated solution for example micellization and mesophase formation etc in chapters 2 and 3 respectively chapter 4 covers polyelectrolyte block copolymers these materials are attracting significant attention from researchers and a solid basis for understanding their physical chemistry is emerging and this is discussed the next chapter discusses adsorption of block copolymers from solution at liquid and solid interfaces the concluding chapter presents a discussion of selected applications focussing on several important new concepts the book is aimed at researchers in polymer science as well as industrial scientists involved in the polymer and coatings industries it will also be of interest to scientists working in soft matter self assembly and self organizing polymers

articles include expository or survey papers focusing on important advances in applied or computational mathematics or papers outlining the mathematical and computational challenges in scientific or engineering applications other features include essays book reviews classroom and industrial notes and problems and solutions

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