

Polymer Physics Rubinstein

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Encyclopedia of Polymer Science and Technology
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polymer physics provides an introduction to the field for upper level undergraduates and first year graduate students any student with a working knowledge of calculus physics and chemistry should be able to read this book the essential tools of the polymer physical chemist or engineer are derived in this book without skipping any steps

problems at the end of each chapter provide the reader with the opportunity to apply what has been learned to practice jaquette du livre

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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

ring polymers are one of the last big mysteries in polymer physics and this thesis tackles the problem of describing their behaviour when interacting in dense solutions and with complex environments and reports key findings that help shed light on these complex issues the systems investigated are not restricted to artificial polymer systems but also cover biologically inspired ensembles contributing to the broad applicability and interest of the conclusions reached one of the most remarkable findings is the unambiguous evidence that rings inter penetrate when in dense solutions here this behaviour is shown to lead to the emergence of a glassy state solely driven by the topology of the constituents this novel glassy state is unconventional in its nature and thanks to its universal properties inherited from polymer physics will attract the attention of a wide range of physicists in the years to come

this book provides a comprehensive description of topological polymers an emerging research area in polymer science and polymer materials engineering the precision polymer topology designing is critical to realizing the unique polymer properties and functions leading to their eventual applications the prominent contributors are led by principal editor yasuyuki tezuka and co editor tetsuo deguchi important ongoing achievements and anticipated breakthroughs in topological polymers are presented with an emphasis on the spectacular diversification of polymer constructions the book serves readers collectively to acquire comprehensive insights over exciting innovations ongoing in topological polymer chemistry encompassing topological geometry analysis classification physical characterization by simulation and the eventual chemical syntheses with the supplementary focus on the polymer folding invoked with the ongoing breakthrough of the precision ai prediction of protein folding the current revolutionary developments in synthetic approaches specifically for single cyclic ring polymers and the topology directed properties functions uncovered thereby are outlined as a showcase example this book is especially beneficial to academic personnel in universities and to researchers working in relevant institutions and companies although the level of the book is advanced it can serve as a good reference book for graduate students and postdocs as a source of valuable knowledge of cutting edge topics and progress in polymer chemistry

this publication in two volumes is devoted to the scientific impact of the work of nobel laureate pierre gilles de gennes one of the greatest scientists of the 20th century it covers the important fields for which de gennes was renowned solid state magnetism and superconductivity macroscopic random media and percolation supersolids liquid crystals polymers adhesion and friction and biophysics the book brings together internationally renowned experts to contribute their perspectives on the significance of de gennes works they have each selected a definitive paper which gives the state of the field at the time the paper was published highlights the paper s importance and provides an analysis of the development of the field right up to the modern day the insightful perspectives of these scientists make the book both unique and intriguing

this is the second volume devoted to soft matter and biophysics

soft condensed matter is a relatively new topic condensed matter has typically referred to more traditional liquids which have a long history of study or to solids which have focused more commonly on hard materials driven in large measure by the importance of structural materials or the metals and semiconductors which drove the rapid evolution of microelectronics it is only relatively recently over the past 20 to 30 years that soft condensed matter has matured into its own identifiable field however the field is an amalgam of many subfields and many of these have themselves much longer histories this handbook serves as an overview of many of these topics because of the great breadth it is impossible to include them all nevertheless the key subjects of soft condensed matter are represented here together they form both an introduction and an overview of the field each topic and its representing chapter could have been a full size book in fact there are a number of such books on many of the topics covered in the handbook our aim here was to give a current snapshot of the field identify the key principles at play and the most prominent and promising ways of its further development provide essential references for anyone to follow the subject but not necessarily go into a lot of detail on each topic

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

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

the mrs symposium proceeding series is an internationally recognised reference suitable for researchers and practitioners

providing a broad survey of the entire field macromolecules integrates representations of chemistry physics and technology as well as including precise descriptions of basic phenomena and balanced treatments of facts and theory

this completely new third edition of the mark encyclopedia of polymer science and technology brings the state of the art to the 21st century with coverage of nanotechnology new imaging and analytical techniques new methods of controlled polymer architecture biomimetics and more whereas earlier editions published one volume at a time the third edition is being published in 3 parts of 4 volumes each each of these 4 volume parts is an a z selection of the latest in polymer science and technology as published in the updated online edition of the mark encyclopedia of polymer science and technology available at mrw interscience wiley com epst order the 12 volume set isbn 0471275077 now for the best value and receive each of the 4 volume parts as they publish the complete list of titles to appear in part 1 of this new third print edition can be viewed at mrw interscience wiley com epst and clicking on what s new check this website often as new articles are added periodically

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