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a well rounded and articulate examination of polymer properties at the molecular level polymer chemistry focuses on fundamental principles based on underlying chemical structures polymer synthesis characterization and properties it emphasizes the logical progression of concepts and provide mathematical tools as needed as well as fully derived problems for advanced calculations the much anticipated third edition expands and reorganizes material to better develop polymer chemistry concepts and update the remaining chapters new examples and problems are also featured throughout this revised edition integrates concepts from physics biology materials science chemical engineering and statistics as needed contains mathematical tools and step by step derivations for example problems incorporates new theories and experiments using the latest tools and instrumentation and topics that appear prominently in current polymer science journals the number of homework problems has been greatly increased to over 350 in all the worked examples and figures have been augmented more examples of relevant synthetic chemistry have been introduced into chapter 2 step growth polymers more details about atom transfer radical polymerization and reversible addition fragmentation chain transfer polymerization have been added to chapter 4 controlled polymerization chapter 7 renamed thermodynamics of polymer mixtures now features a separate section on thermodynamics of polymer blends chapter 8 still called light scattering by polymer solutions has been supplemented with an extensive introduction to small angle neutron scattering polymer chemistry third edition offers a logical presentation of topics that can be scaled to meet the needs of introductory as well as more advanced courses in chemistry materials science polymer science and chemical engineering

materials engineering and science understand the relationship between processing and material properties with this streamlined introduction materials engineering focuses on the complex and crucial relationship between the physical properties of materials and the chemical bonds that comprise them specifically this field of study seeks to understand how materials can be designed to meet specific design and performance criteria this materials paradigm has in recent years become integral to numerous cutting edge areas of technological development materials engineering and science seeks to introduce this vital and fast growing subject to a new generation of scientists and engineers it integrates core thermodynamic kinetic and transport principles into its analysis of the structural mechanical and physical properties of materials creating a streamlined and intuitive approach that fosters understanding now fully revised to reflect the latest research and educational paradigms this is an essential resource readers of the second edition will also find detailed

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non equilibrium states and glass transitions in foods processing effects and product specific implications presents the tactics needed to understand and control non equilibrium states and glass transitions in food an essential element in maintaining the shelf life and quality of foods after brief introductory chapters introduce the science behind non equilibrium states and glass transitions in foods the book details how glass transition temperature is affected by composition and the ways it influences processability and physico chemical changes during the storage of foods also exploring how these effects can be controlled the second section looks at individual foods highlighting the implications of non equilibrium states and glass transitions within these foods maintaining and improving the quality of food is of upmost importance to food companies who have to ensure that the shelf life of their products is as long as possible a large amount of research has been performed into glass transitions in food over the last few years however there has not been a comprehensive review this book fills that gap provides the only book on the market that covers non equilibrium states and glass transitions in food from a practical standpoint presents food industry professionals in the area of food quality with essential information on the effects of glass transitions and non equilibrium states on the shelf life of specific products edited by global leaders in glass transition technology in foods

polymers for controlled drug delivery addresses the challenges of designing macromolecules that deliver therapeutic agents that function safely and in concert with living organisms the book primarily discusses classes of polymers and polymeric vehicles including particulates such as latexes coacervates ion exchange resins and liposomes as well as non particulate vehicles such as enteric coatings mediators and bioadhesives other topics discussed include diffusion biodegradation controlled delivery animal model studies for toxicity metabolism and elimination testing and fda requirements for clinical studies drug delivery researchers will find this book to be an invaluable reference tool

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