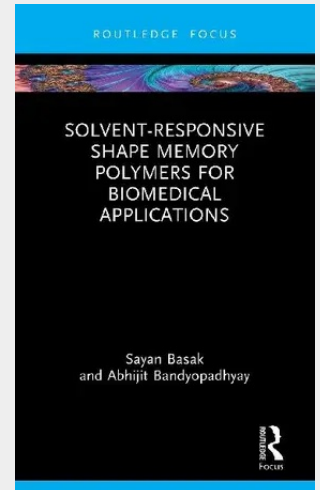


Solvent-Responsive Shape Memory Polymers for Biomedical Applications

This book explains the intricacies of one-way shape memory polymers (SMPs), with a particular emphasis on solvent-responsive SMPs focusing on fundamental pathways and key principles crucial to the development of these materials. The subsequent section homes in on the specific realm of solvent-responsive SMPs, highlighting the potential advantages these polymers offer and critical evaluation of existing shortcomings and research gaps. It further explains how solvent-responsive SMPs aim to address challenges and advancements within the biomedical industry. Features: - Delve into the latest developments and research findings on solvent-responsive shape memory polymers. - Explore practical and real-world applications of solvent-responsive shape memory polymers in the biomedical domain. - Provide an understanding of these polymers from molecular to macroscopic levels. - Explore the underlying physics, chemistry, and thermodynamics that govern the mechanism of solvent-driven shape change in these polymers. - Review innovations in the design of solvent-responsive shape memory polymers and their applications across a variety of industrial fields. - Examine how solvent-responsive shape memory polymers can be integrated and applied across different scientific disciplines. This book is aimed at graduate students and researchers in polymer engineering, materials science, and bioengineering.



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