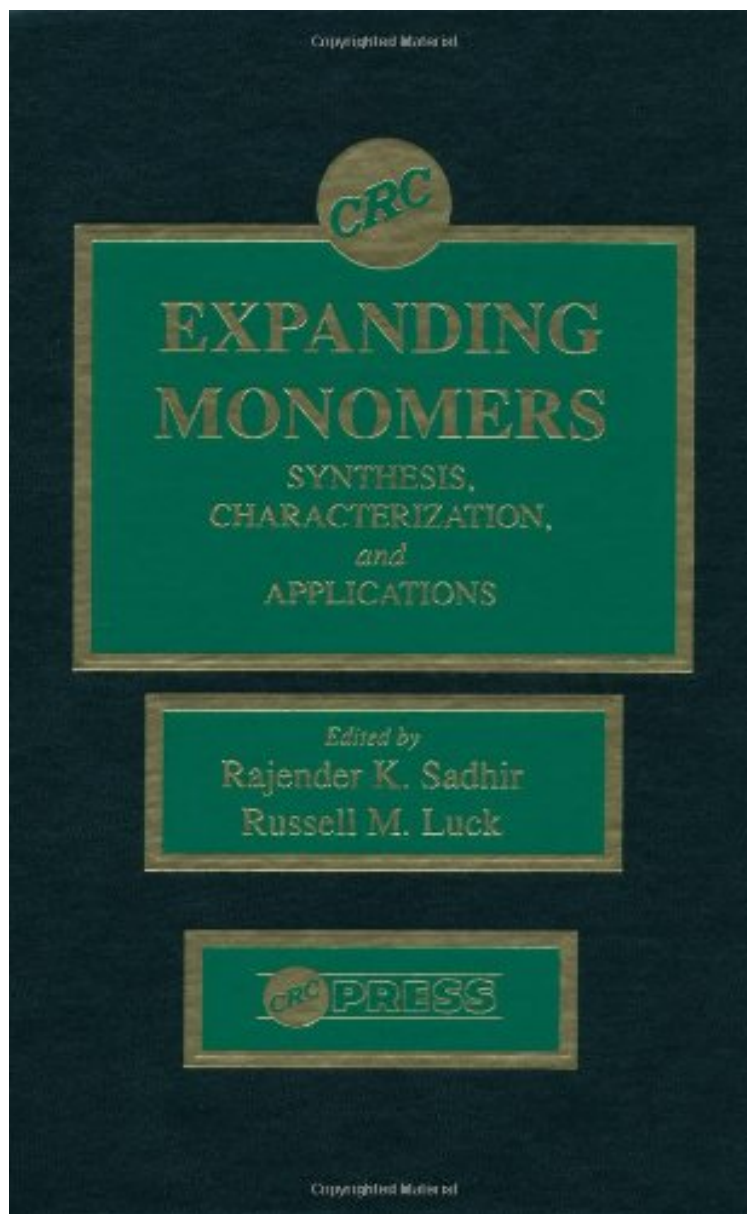



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Expanding Monomers: Synthesis, Characterization, and Applications provides a thorough discussion of expanding polymer systems and their potential applications. The scope of the book includes background information on conventional monomers, their polymeric systems, and associated shrinkage problems. Monomers that expand during polymerization are covered in detail, including their synthesis and characterization. Polymerization (homopolymerization and copolymerization) of expanding monomers is discussed, in addition to mechanisms and kinetics of several polymerization processes, such as cationic initiation and free radical ring-opening polymerization. The book also explores various applications in which expanding polymer systems have potential. These applications include coatings, casting and potting materials, composite adhesives, and electrical insulations. Expanding Monomers: Synthesis, Characterization, and Applications will be valuable as a reference for manufacturers, researchers, teachers, and students in polymer and materials science, in addition to industry and university libraries.