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# Smart Polymers and their Applications (Woodhead Publishing in Materials)

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Smart polymers are polymers that respond to different stimuli or changes in the environment. *Smart Polymers and their Applications* reviews the types, synthesis, properties, and applications of smart polymers.

Chapters in part one focus on types of polymers, including temperature-, pH-, photo-, and enzyme-responsive polymers. Shape memory polymers, smart polymer hydrogels, and self-healing polymer systems are also explored. Part two highlights applications of smart polymers, including smart instructive polymer substrates for tissue engineering; smart polymer nanocarriers for drug delivery; the use of smart polymers in medical devices for minimally invasive surgery, diagnosis, and other applications; and smart polymers for bioseparation and other biotechnology applications. Further chapters discuss the use of smart polymers for textile and packaging applications, and for optical data storage.

*Smart Polymers and their Applications* is a technical resource for chemists, chemical engineers, mechanical engineers, and other professionals in the polymer industry; manufacturers in such sectors as medical, automotive, and aerospace engineering; and academic researchers in polymer science.

- Reviews the different types of smart polymer, discussing their properties, structure, design, and characterization
- Reviews applications of smart polymers in such areas as biomedical engineering, textiles, and food packaging

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