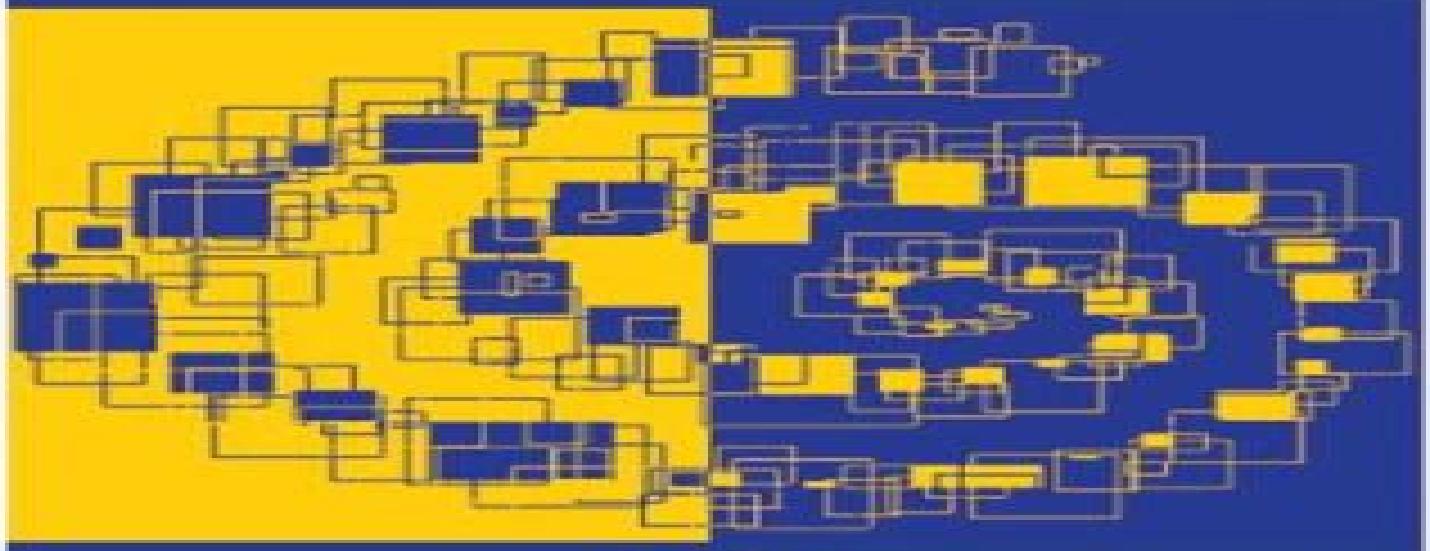
Reflexive Polymers and Hydrogels

Understanding and Designing Fast Responsive Polymeric Systems



Edited by
Nobuhiko Yui, Randall J. Mrsny, and Kinam Park

CRC Press
Taylor & Francis Group

Reflexive Polymers And Hydrogels

Reza Fazel-Rezai

Reflexive Polymers And Hydrogels:

Reflexive Polymers and Hydrogels Nobuhiko Yui,Randall J. Mrsny,Kinam Park,2004-03-17 Despite their capacity to carry out functions that previously were unobtainable smart polymers and hydrogels tend to have painfully slow response times On the other hand biological systems go through phase changes at an extremely fast rate Reflexive Polymers and Hydrogels examines the natural systems that respond almost instantaneously to environmental stimuli and thus gives the reader an understanding of the mechanisms that govern these responses The book includes chapters on approaches and procedures for designing a synthetic flash system based on naturally occurring systems It also deals with some of the promising potential applications of flash systems in industry Intelligent Hydrogels in Diagnostics and Therapeutics Anujit Ghosal,Ajeet Kaushik,2020-05-27 This book explores the potential of hydrogels as a multiutility system and their benefits biocompatibility degradability and supporting scaffolds for a wide range of applications in diagnostics and therapeutics It also discusses the future prospects and challenges facing hydrogels A wide variety of smart hydrogels conducting stimuli responsive and others with possible biomedical applications are elaborated The book demonstrates the effectiveness of hydrogels in diagnostics of diseases in various in vivo and in vitro environments and highlights the engineering functionalization of hydrogels for everyday drug dosage as an efficient drug carrier scaffold and sensing application Explores the potential of hydrogels as a multifunctional system and their benefits particularly for biomedical applications in diagnostics as well as therapeutics Highlights the designing and engineering of hydrogels for everyday drug dosage and possible functionalization to fabricate an efficient drug carrier Examines the significance of biopolymer based hydrogels and their responsiveness in different physiological fluids Demonstrates the effectiveness of hydrogels in diagnostics of diseases in various in vivo and in vitro environments Presents challenges associated with the hydrogels and discusses possible in hand modifications at length Dr Anujit Ghosal worked in the School of Biotechnology Jawaharlal Nehru University India Currently he is affiliated with the School of Life Sciences Beijing Institute of Technology Beijing PRC Dr Ghosal researches in biochemistry polymer chemistry and nanotechnology He has been the recipient of prestigious fellowships throughout his research career His research ability is proven by his published peer reviewed research and review articles and contributed book chapters Dr Ajeet Kaushik works as an assistant professor of chemistry and is exploring advanced electrochemical sensing systems and nanomedicine for personalized health wellness at the Department of Natural Sciences of the Division of Science Arts and Mathematics at Florida Polytechnic University Lakeland US He is the recipient of various reputed awards for his service in the area of nanobiotechnology for health care His excellent research credentials are reflected by his four edited books 100 international research peer reviewed publications and three patents in the area of nanomedicine and smart biosensors for personalized health care **Stimuli-Responsive Polymer Systems—Recent Manufacturing Techniques and Applications** Akif Kaynak,Ali Zolfagharian,2019-09-17 Stimuli responsive polymer systems can be defined as functional

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