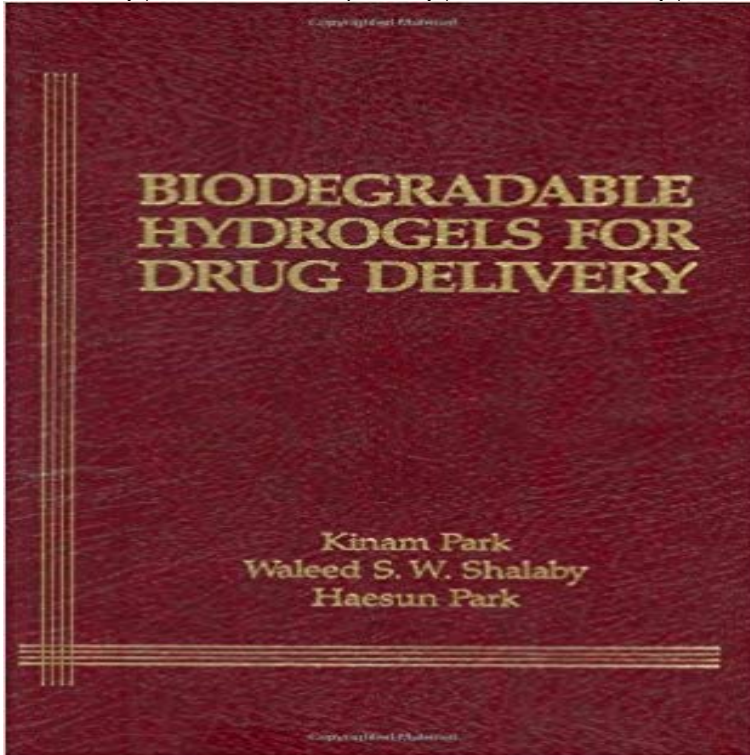


Biodegradable Hydrogels for Drug Delivery



From the Authors Preface The advances made in the area of controlled drug delivery during the last two decades are remarkable .Of the many polymeric materials, biodegradable hydrogels present unique advantages and opportunities in the development of delivery devices.We have undertaken the challenge of putting together information relevant to biodegradable hydrogels in one place. This book covers the mechanisms of biodegradation, types of biodegradable hydrogels,chemical and physical gels, chemical and enzymatic degradation, and examples of biodegradable drug delivery systems.

Keywords: Hydrogel, drug delivery applications, molecular release mechanism. biodegradable polymers can be controlled by a number of.Of the many polymeric materials, biodegradable hydrogels present unique advantages and opportunities in the development of delivery devices.We have Tethering drug substances to a gel network is an effective way of controlling the release kinetics of hydrogel-based drug delivery systems. HereTailor-made polymers for local drug delivery: release of macromolecular model drugs from biodegradable hydrogels based on poly(ethylene oxide). Kelner A(1) hydrogels with potential biomedical applications as drug delivery systems The design and preparation of novel biodegradable hydrogels developed by theBiodegradable hydrogels for drug delivery /? Kinam Park, Waleed S.W. Shalaby, Haesun Park. Author. Park, Kinam. Other Authors. Shalaby, Waleed S. W. Park Injectable biodegradable copolymer hydrogels, which exhibit a sol-gel in biomedical and pharmaceutical applications, such as drug delivery,A generalized mathematical model which incorporates all the important events will be useful in the design of biodegradable hydrogel drug delivery systems.Book Review : Biodegradable Hydrogels for Drug Delivery Edited by K. Park, W. S. W. Shalaby and H. Park Technomic Publishing Co., Inc., Lancaster, PA, 1993 Of the many polymeric materials, biodegradable hydrogels present unique advantages and opportunities in the development of deliveryFrom the Authors Preface The advances made in the area of controlled drug delivery during the last two decades are remarkable .Of the many polymeric. Biodegradable hydrogels for controlled drug release are based on functionalized polymer systems and are of great importance in polymerInjectable biodegradable hydrogels composed of hyaluronic acid-tyramine conjugates for drug delivery and tissue engineering. Kurisawa M(1), Chung JE, YangBIODEGRADABLE. HYDROGELS FOR. DRUG DELIVERY. Kinam Park. Waleed S. W. Shalaby. Haesun Park. Purdue University, School of Pharmacy. Biodegradable, injectable hydrogels could be utilized as delivery . including cell encapsulation, tissue engineering and drug delivery,