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2.4.3.2 Cationic starch2.4.4 Conclusions; References; 3 Chitosan and its derivatives as self-assembled systems for drug delivery; Abbreviations; 3.1 Introduction; 3.2 Unmodified chitosan-self-assembled thermogels; 3.2.1 Mechanism of chitosan thermogelation; 3.2.2 Chitosan thermogels; 3.3 Amphiphilic chitosan derivatives; 3.3.1 Alkylated chitosan; 3.3.2 Acylated chitosan; 3.3.2.1 Acylated chitosan; 3.3.2.2 Acylated chitosan oligosaccharides; 3.3.3 Cholesterol-modified chitosan; 3.3.4 Cholic and deoxycholic acid-modified chitosan; 3.3.5 5-Cholanic acid-modified chitosan
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Sommario/riassunto

In complex macromolecules, minor modifications can generate major changes, due to self-assembling capacities of macromolecular or supramolecular networks. Controlled Drug Delivery highlights how the multifunctionality of several materials can be achieved and valorized for pharmaceutical and biopharmaceutical applications. Topics covered in this comprehensive book include: the concept of self-assembling; starch and derivatives as pharmaceutical excipients; and chitosan and derivatives as biomaterials and as pharmaceutical excipients. Later chapters discuss polyelectrolyte complexes as excipient