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Nota di contenuto

Front Cover; Controlled Drug Delivery; Copyright Page; Contents; List of figures; List of tables; Biography for book; 1 The concept of self-assembling and the interactions involved; 1.1 The concept of self-assembling; 1.1.1 The concept of self-assembling by association/interaction processes; 1.2 The nature of forces and types of interactions involved in self-assembly of macromolecules; 1.3 Hydrogels and their role in drug conception and development; 1.3.1 Organogels and micelles for drug delivery; 1.4 Self-assembling phenomena in solid dosage forms
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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