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 2.3.3 Chemosensors Using Modified Cyclodextrins 2.3.4 Cyclodextrin Analogues; 2.3.5 Cyclodextrins Conjugated with Other Kinds of Hosts; 2.3.6 Cyclodextrin-Peptide Conjugates; 2.3.7 Cyclodextrin-Saccharide Conjugates; 2.3.8 Metallocavitands Using Modified Cyclodextrins; References; 3 Polymers Involving Cyclodextrin Moieties; 3.1 Supramolecular Polymers Formed by Cyclodextrin Derivatives; 3.1.1 Introduction; 3.1.2 Preparation of Mono-substituted Cyclodextrins; 3.1.3 Formation of Inclusion Complexes [30, 31]; 3.1.4 Polymer Formation by Intermolecular Interactions; 3.1.5 Supramolecular Dimers 3.1.6 Formation of Supramolecular Trimers 3.1.7 Cyclic Daisy Chain [31, 42]; 3.1.8 Supramolecular Polymers [45]; 3.1.9 Poly[2]rotaxanes (Daisy Chain); 3.1.10 Helical Supramolecular Polymers [45, 46]; 3.1.11 Alternating -, -Cyclodextrin Supramolecular Polymers [47]; 3.1.12 Supramolecular [2]rotaxane Polymer [43]; 3.1.13 Conclusion; 3.2 Supramolecular Complexes of Polymers Bearing Cyclodextrin Moieties with Guest Molecules; References; 4 Cyclodextrin Catalysis; 4.1 Introduction; 4.2 Covalent Catalysis; 4.3 General Acid-Base Catalysis by OH Groups; 4.4 Noncovalent Catalysis  
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## Sommario/riassunto

Offering comprehensive and up-to-date know-how in one compact book, an experienced editor and top authors cover every aspect of these important molecules from molecular recognition to cyclodextrins as enzyme models. Chapters include reactivity and chemistry, chromatography, X-ray, NMR plus other physicochemical methods, as well as model calculations, rotaxane and catenane structures, and applications in the pharmaceutical industry. The book also discusses other applications such as in the cosmetics, toiletries, textile and wrapping industries, agrochemistry, electrochemical sensors, and dev