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Nota di contenuto	Cover; Title Page; Copyright; Contents; List of Contributors; Preface; Chapter 1 A Supramolecular Approach to Macromolecular Self-Assembly: Cyclodextrin Host/Guest Complexes; 1.1 Introduction; 1.2 Synthetic Approaches to Host/Guest Functionalized Building Blocks; 1.2.1 CD Functionalization; 1.2.2 Suitable Guest Groups; 1.3 Supramolecular CD Self-Assemblies; 1.3.1 Linear Polymers; 1.3.2 Branched Polymers; 1.3.3 Cyclic Polymer Architectures; 1.4 Higher Order Assemblies of CD-Based Polymer Architectures Toward Nanostructures; 1.4.1 Micelles/Core-Shell Particles; 1.4.2 Vesicles 1.4.3 Nanotubes and Fibers1.4.4 Nanoparticles and Hybrid Materials; 1.4.5 Planar Surface Modification; 1.5 Applications; 1.6 Conclusion and Outlook; References; Chapter 2 Polymerization-Induced Self-Assembly: The Contribution of Controlled Radical Polymerization to The Formation of Self-Stabilized Polymer Particles of Various Morphologies; 2.1 Introduction; 2.2 Preliminary Comments Underlying Controlled Radical Polymerization; 2.2.1 Introduction; 2.2.2 Major Methods Based on a Reversible Termination Mechanism; 2.2.3 Major Methods Based on a Reversible Transfer Mechanism 2.3 Pisa Via CRP Based on Reversible Termination2.3.1 PISA Using NMP;

2.3.2 Using ATRP; 2.4 Pisa Via CRP Based on Reversible Transfer; 2.4.1 Using RAFT in Emulsion Polymerization; 2.4.2 Using RAFT in Dispersion Polymerization; 2.4.3 Using TERP; 2.5 Concluding Remarks; Acknowledgments; Abbreviations; References; Chapter 3 Amphiphilic Gradient Copolymers: Synthesis and Self-Assembly in Aqueous Solution; 3.1 Introduction; 3.2 Synthetic Strategies for The Preparation of Gradient Copolymers; 3.2.1 Preparation of Gradient Copolymers by Controlled Radical Copolymerization
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3.3 Self-Assembly; 3.3.1 Gradient Copolymers; 3.3.2 Diblock-Gradient Copolymers; 3.3.3 Triblock-Gradient Copolymers; 3.4 Conclusion and Outlook; Abbreviations; References; Chapter 4 Electrostatically Assembled Complex Macromolecular Architectures Based on Star-Like Polyionic Species; 4.1 Introduction; 4.2 Core-Corona Co-Assemblies of Homopolyelectrolyte Stars Complexed with Linear Polyions
4.3 Core-Shell-Corona Co-Assemblies of Star-Like Micelles of Ionic Amphiphilic Diblock Copolymers Complexed with Linear Polyions
4.4 Vesicular Co-Assemblies of Bis-Hydrophilic Miktoarm Stars Complexed with Linear Polyions; 4.5 Conclusions; Acknowledgment; References; Chapter 5 Solution Properties of Associating Polymers; 5.1 Introduction; 5.2 Structures of Associating Polyelectrolytes; 5.3 Associating Polyelectrolytes in Dilute Solutions; 5.3.1 Intramolecular Association; 5.3.2 Intermolecular Association; 5.4 Associating Polyelectrolytes in Semidilute Solutions; 5.5 Conclusions; References
Chapter 6 Macromolecular Decoration of Nanoparticles for Guiding Self-Assembly in 2D and 3D
