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Nota di contenuto	Preface. 1. Introduction. 1.1. Simple ring compounds. 1.2. Three dimensional aliphatic carbon structures. 1.3. Annulenes. 1.4. Multi-ring aromatic structures. 1.5. Porphyrins and phthalocanines. 1.6. Conclusions. References. 2. Cyclophanes. 2.1. Introduction to cyclophanes. 2.2. Cyclophanes with one aromatic system and aliphatic chain. 2.3. Cyclophanes with more than 1 aromatic ring. 2.4. Naphthalenophanes and other aromatic systems. 2.5. Cyclophanes containing heteroaromatic systems. 2.6. Ferrocenophanes. References. 3. Crown ethers, cryptands and other compounds. 3.1. Introduction. 3.2. Crown ethers. 3.3. Simple complexes with crown ethers. 3.4. Azacrowns, cyclens and cyclams. 3.5. Crowns containing other heteroatoms. 3.6. Lariat and bibracchial crown ethers. 3.7. Cryptands. 3.8. Spherands. 3.9. Combined and multiple systems. 3.10. Applications of crown ethers and related compounds. 3.11. Conclusions. References. 4. Calixarenes. 4.1. Introduction to calixarenes. 4.2. History of the calixarenes. 4.3. Structures of calixarenes. 4.4. Chemical modification of calixarenes. 4.5. Complexes with calixarenes. 4.6. Bis- and multicalixarenes. 4.7. Oxacalixarenes,

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Sommario/riassunto

Providing an essential introduction on this important class of molecules which underpin nanotechnology, this book describes how they can be used as nanotechnology building blocks, and their applications.
