

- Contributors p. vii
- Preface p. ix
- 1 Hydrogen Bonds in Inorganic Chemistry: Application to Crystal Design Lee Brammer p. 1
- 2 Molecular Recognition and Self-Assembly Between Amines and Alcohols (Supraminols) Raffaele Saladino and Stephen Hanessian p. 77
- 3 Very Large Supramolecular Capsules Based on Hydrogen Bonding Jerry L. Atwood and Leonard J. Barbour and Agoston Jerga p. 153
- 4 Molecular Tectonics: Molecular Networks Based on Inclusion Processes Julien Martz and Ernest Graf and Andre De Cian and Mir Wais Hosseini p. 177
- 5 Layered Materials by Design: 2D Coordination Polymeric Networks Containing Large Cavities/Channels Kumar Biradha and Makoto Fujita p. 211
- 6 The Construction of One-, Two- and Three-Dimensional Organic-Inorganic Hybrid Materials from Molecular Building Blocks Robert C. Finn and Eric Burkholder and Jon A. Zubieta p. 241
- 7 A Rational Approach for the Self-Assembly of Molecular Building Blocks in the Field of Molecule-Based Magnetism Melanie Pilkington and Silvio Decurtins p. 275
- 8 Polymorphism, Crystal Transformations and Gas-Solid Reactions Dario Braga and Fabrizia Grepioni p. 325
- 9 Solid-Gas Interactions Between Small Gaseous Molecules and Transition Metals in the Solid State. Toward Sensor Applications Michel D. Meijer and Robertus J. M. Klein Gebbink and Gerard van Koten p. 375
- Cumulative Author Index p. 387
- Cumulative Title Index p. 393
- Index p. 397