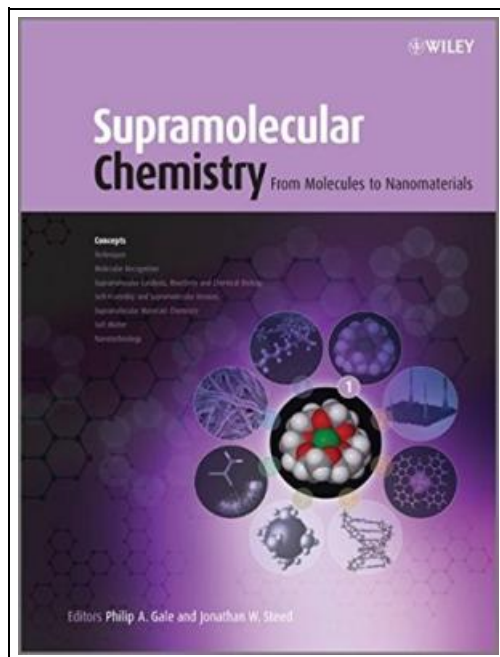


## Supramolecular Chemistry: From Molecules to Nanomaterials (Hardback)



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**SUPRAMOLECULAR CHEMISTRY: FROM MOLECULES TO NANOMATERIALS (HARDBACK)**

John Wiley and Sons Ltd, United States, 2012. Hardback. Condition: New. New. Language: English . Brand New Book. Supramolecular Chemistry: From Molecules to Nanomaterials is a new major reference work which links supramolecular chemistry and nanomaterials. Presenting over 150 tutorial articles and spanning over 10 comprehensive sections, this new resource covers: \* Concepts \* Techniques \* Molecular recognition \* Supramolecular reactivity \* Supramolecular aspects of chemical biology \* Self processes \* Supramolecular devices \* Supramolecular materials chemistry \* Soft matter \* Nanotechnology Supramolecular chemistry is chemistry beyond the molecule . While traditional chemistry focuses on the bonds that hold atoms together in a molecule, supramolecular chemistry examines the weaker interactions that hold groups of molecules together. Important concepts that have been demonstrated by supramolecular chemistry include molecular self-assembly, folding, molecular recognition, host-guest chemistry, mechanically-interlocked molecular architectures, and dynamic covalent chemistry. The importance of supramolecular chemistry was established by the 1987 Nobel Prize for Chemistry, which was awarded to Donald J. Cram, Jean-Marie Lehn, and Charles J. Pedersen in recognition of their work in the field. The past decade has seen dramatic developments in the field, with supramolecular chemistry leaving its roots in classical host guest chemistry and expanding into exciting areas of materials chemistry and nanoscience with many real and potential applications. Supramolecular findings are evolving our understanding of the way chemical concepts at the molecular level build up into materials and systems with fascinating, emergent properties on the nanoscale. Supramolecular chemistry: the biggest challenge yet! Creating that link between the chemist's understanding of the way in which molecules interact with one another, and the understanding a materials scientist, engineer or biologist has of the resulting properties of a material or system comprised of those molecules is one of the huge grand challenges facing modern molecular science. Philip A....



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