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Introduction. In this book we delve into the field of supramolecular chemistry, which deals with supermolecules. A supermolecule in this sense can be defined as a “ molecule beyond a molecule ” – a large and complex entity formed from other molecules. The book conveys the relevance and fascination of the fast-growing field of supramolecular chemistry to advanced undergraduate students, and provides an overview of it to young scientists and engineers.

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Thereafter, applications of supermolecules to nanotechnology are introduced with many examples of molecular devices. The last part of the book describes biological supermolecules and their mimics, including ion channels, signal transduction, photosynthetic machines, natural and artificial enzymes, catalytic

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antibodies, and ribozymes.

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Supramolecular Chemistry - Fundamentals and Applications ...

Covering the fundamentals of "supramolecular chemistry" to recent developments on the subject this book explains the subject in a relatively easy way. Many reference works on the topic exist, but this is the first book on the subject 's basic concepts.

Supramolecular Chemistry - Fundamentals and Applications ...

It begins by treating molecular recognition chemistry including crown ethers, cyclodextrines, and calixarenes. Molecules with fascination shapes and functions such as fullerenes, carbon nanotubes, dendrimers, rotaxane, and catenane, and molecular assemblies such as bilayers and LB films are also explained.

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Book Supramolecular Chemistry Fundamentals and ...

The basic concepts of molecular recognition chemistry are included. Molecules with fascinating shapes and functions such as fullerenes, carbon nanotubes, dendrimers, rotaxane, and catenane, and molecular assemblies are also explained. Thereafter applications of supermolecules to nanotechnology are introduced with many examples of molecular devices.

Supramolecular Chemistry - Fundamentals and Applications ...

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The fundamentals of "supramolecular chemistry" to the latest developments on the subject are covered by this book. Molecules with fascinating shapes and functions such as fullerenes, carbon nanotubes, dendrimers, rotaxane, and catenane, and molecular assemblies are also explained.

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Supramolecular chemistry : fundamentals and applications ...

supramolecular chemistry is classified into three categories: (i) the chemistry associated with a molecule recognizing a partner molecule (molecular recognition chemistry); (ii) the chemistry of molecules built to specific shapes; (iii) the chemistry of molecular assembly from numerous molecules. This classification -

Supramolecular Chemistry – Fundamentals and Applications

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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.

Supramolecular Chemistry: From Molecules to Nanomaterials ...

A number of new generation macrocycles and cages constructed from electron-deficient tetrazine and benzenetriimide segments have also been developed in the meantime, advancing the study of anion – interactions. This Account summarizes our endeavors to explore nascent anion – interactions and their applications in supramolecular chemistry.

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