Comprehensive Supramolecular Chemistry II

By George W. Gokel

ELSEVIER LTD Aug 2017, 2017. Buch. Condition: Neu. Neuware - Comprehensive Supramolecular Chemistry II, Second Edition is a 'one-stop shop' that covers supramolecular chemistry, a field that originated from the work of researchers in organic, inorganic and physical chemistry, with some biological influence. The original edition was structured to reflect, in part, the origin of the field. However, in the past two decades, the field has changed a great deal as reflected in this new work that covers the general principles of supramolecular chemistry and molecular recognition, experimental and computational methods in supramolecular chemistry, supramolecular receptors, dynamic supramolecular chemistry, supramolecular engineering, crystallographic (engineered) assemblies, sensors, imaging agents, devices and the latest in nanotechnology. Each section begins with an introduction by an expert in the field, who offers an initial perspective on the development of the field. Each article begins with outlining basic concepts before moving on to more advanced material. Contains content that begins with the basics before moving on to more complex concepts, making it suitable for advanced undergraduates as well as academic researchers. Focuses on application of the theory in practice, with particular focus on areas that have gained increasing importance in the 21st century, including nanomedicine, nanotechnology...

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Supramolecular chemistry finds in solid-state NMR spectroscopy a privileged characterization method, especially in a variety of multidimensional experiments. Supramolecular chemistry—chemistry beyond the molecule—depends significantly on the cumulative weak force interactions that are designed into the system. Supramolecular chemistry has paved the way toward apprehending chemistry as an information science through the implementation of the concept of molecular information with the aim of gaining progressive control over the spatial (structural) and temporal (dynamic) features of matter and over its complexification through self-organization, the drive to life. Supramolecular chemistry has developed as the chemistry of the entities generated by intermolecular noncovalent interactions. Through the appropriate manipulation of these interactions, it became progressively the chemistry of molecular assemblies and intermolecular bonds. Supramolecular chemistry is the chemistry of the entities generated by intermolecular noncovalent interactions, a field that originated from the work of researchers in organic, inorganic and physical chemistry, with some biological influence. The original edition was structured to reflect, in part, the origin of the field. However, in the past two decades, the field has developed as the chemistry of molecular assemblies and intermolecular bonds. It is one of today’s fastest growing disciplines, crossing a range of subjects from biological chemistry to materials science; and from synthesis to spectroscopy. Supramolecular Chemistry is an up-to-date, integrated textbook that tells the newcomer to the field everything they need to know to get started. "At just under 1000 pages, the second edition of Steed and Atwood’s Supramolecular Chemistry is the most comprehensive overview of the area available in textbook form...highly recommended." —Chemistry World, August 2009. Related Resources. Supramolecular chemistry is a rapidly growing field, which has had remarkable impact on the life sciences on one hand and on materials sciences on the other. In the life sciences, the networks of noncovalent interactions between the constituents of cells, for example, have shifted into the current focus. A first Thematic Series devoted to supramolecular chemistry was assembled about two years ago and published by the Beilstein Journal of Organic Chemistry [1]. This first series of articles had quite a broad scope ranging from encapsulation and carbohydrate, peptide, anion and ammonium ion binding, through chiral recognition, the formation of pseudorotaxanes and template effects, all the way to allosteric binding to synthetic.