Non-Covalent Interactions: Theory and Experiment (Hardback)

By Pavel Hobza, Klaus Muller-Dethlefs

Royal Society Of Chemistry, United Kingdom, 2010. Hardback. Book Condition: New. Edition. ed.. 234 x 158 mm. Language: English . Brand New Book. The aim of this book is to provide a general introduction into the science behind non-covalent interactions and molecular complexes using some important experimental and theoretical methods and approaches. It is the first monograph on this subject written in close collaboration between a theoretician and an experimentalist which presents a coherent description of non-covalent interactions viewed from these two perspectives. The book describes the experimental and theoretical techniques, and some results obtained by these, which are useful in conveying the principles underlying the observable or computable properties of molecular clusters. The chemical and physical background underlying non-covalent interactions are treated comprehensively and non-covalent interactions is contrasted to ionic, covalent and metallic bonding. The role of dispersion and electrostatic interactions, static and induced multipole moments, charge transfer and charge localisation and de-localisation are described. In addition, the nomenclature and classification of non-covalent interactions and molecular clusters is discussed since there is still no unique agreement on it. The authors were among first who coined the term non-covalent for intermolecular interactions and all interactions can thus be categorised as...

READ ONLINE

Reviews

This ebook is definitely not simple to begin on reading but really enjoyable to read through. This really is for all who statte that there had not been a worth reading. You may like how the author publish this ebook.
-- Demetrius Buckridge

This book may be really worth a read through, and a lot better than other. It is really basic but excitement inside the 50 % in the pdf. I realized this pdf from my dad and i encouraged this publication to learn.
-- Curtis Bartell