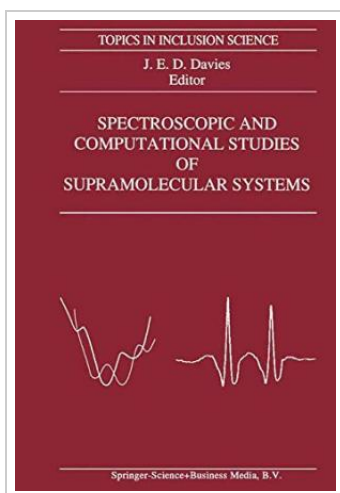




Spectroscopic and Computational Studies of Supramolecular Systems (Hardback)

By -

Springer, Netherlands, 1992. Hardback. Condition: New. 1992 ed.. Language: English . Brand New Book ***** Print on Demand *****.Physical techniques such as X-ray crystallography, IR spectroscopy and solution-phase NMR spectroscopy have played key roles in the development of supramolecular chemistry. In recent years other spectroscopic techniques have been applied, expanding the range of information obtainable. The most widely used technique is solid-state NMR spectroscopy but techniques such as neutron scattering and NQR spectroscopy can yield significant information. Computational approaches are now becoming powerful complementary methods to experimental techniques and this book reviews the application of these methods to supramolecular systems. The ten chapters provide up-to-date information on the applications of spectroscopic and computational techniques to a wide range of supramolecular systems: Solid State NMR Studies of Host-Guest Materials Infrared Studies of Zeolite Complexes NQR Studies of Inclusion Compounds Neutron Scattering Studies of Zeolite Complexes Solid State NMR Studies of Catalytic Reactions on Molecular Sieves Recent Advances in Computational Studies of Zeolites Theoretical Studies of Cyclodextrins and their Inclusion Complexes Computer Modelling of the Structures of Host-Guest Complexes Computational Studies of Clathrate Hydrates Ab initio Electronic Structure Calculations on Endohedral Complexes of the C₆₀ Cluster. This timely book will prove to...



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