

Supramolecular Chemistry (Oxford Chemistry Primers)

By Paul D. Beer, Philip A. Gale, David K. Smith

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This text provides a concise and fully illustrated introduction to the study of interactions between molecules. Now a fundamental area of chemical research, supramolecular chemistry is important in an array of fields, ranging from the design of extraction agents for environmentally toxic species to the development of new pharmaceuticals. This book is structured in a logical manner and provides an ideal basis for a short lecture course for advanced undergraduate or graduate students. It begins with the general approach to supramolecular chemistry, followed by the specific methods used to bind cationic, anionic, and neutral guests. The discussion is then broadened to encompass the use of these methods to assemble remarkable, eye-catching architectures, and finally, the current and future applications of supramolecular chemistry are outlined. Each chapter concludes with a carefully selected list of leading references, making the book an ideal entry to the field.

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Supramolecular Chemistry (Oxford Chemistry Primers) By Paul D. Beer, Philip A. Gale, David K. Smith Bibliography

- Rank: #553505 in Books
- Published on: 1999-06-10
- Original language: English
- Number of items: 1
- Dimensions: 7.30" h x .30" w x 9.50" l, .48 pounds
- Binding: Paperback
- 96 pages

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Editorial Review

Review
This is an account of one of the more recent areas of growth in chemistry. There are seven chapters providing a good basis for undergraduates to obtain an excellent overview at an appropriate level of a wide range of supramolecular chemistry, including examples from inorganic, organic and biochemistry. The final chapter provides a stimulating view of the future applications of supramolecular assemblies./Aslib Book Guide, vol.64, no.8, August 1999.

About the Author
Paul Beer is at University of Oxford. Philip Gale is at University of Oxford.

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