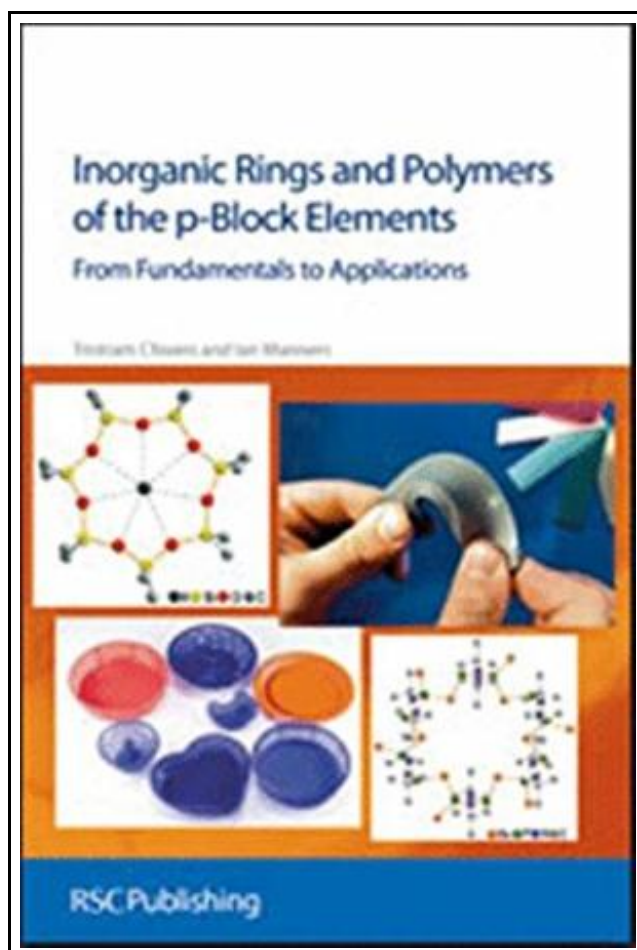


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INORGANIC RINGS AND POLYMERS OF THE P-BLOCK ELEMENTS: FROM FUNDAMENTALS TO APPLICATIONS



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Royal Society of Chemistry. Hardcover. Book Condition: New. Hardcover. 348 pages. Dimensions: 9.2in. x 6.2in. x 1.0in. Ring systems represent a very important branch of organic chemistry. Benzene is perhaps the pre-eminent example and provides the benchmark for the so-called aromatic character of cyclic systems. Cycloalkanes are another prominent class of organic compounds and these saturated ring systems form a homologous series known as alicyclics. Materials that are constructed from organic polymers such as polythene, polystyrene, polyisoprene (natural rubber) and polyvinyl chloride are common features of our daily lives. Most of these and related organic polymers are generated from acyclic precursors by free radical, anionic, cationic or organometallic polymerisation processes or by condensation reactions. The focus of this book is monocyclic inorganic ring systems of the p-block elements and the polymers that are, in many cases derived from them. Bicyclic or polycyclic arrangements are considered when they are closely related to those of monocyclic systems. Inorganic heterocycles that are more accurately described as coordination complexes of chelating inorganic ligands are included only when they are directly related to an inorganic homocycle or heterocycle by the replacement of one p-block element by a more metallic p-block element. After a short introductory chapter, the first half of the book is comprised of seven chapters that deal with the fundamentals of the subject intended for undergraduates or researchers who are unfamiliar with the topic, covering the following areas: - synthetic methods - characterisation techniques - delocalisation in inorganic rings - paramagnetic inorganic rings - inorganic macrocycles - ligand chemistry - inorganic polymers (general concepts including, synthesis, structure and bonding, characterisation methods, properties and applications) The final four chapters discuss in detail the chemistry of inorganic homo- and hetero-cycles involving the elements of groups 13-16 (the p-block elements). The focus is on relating the early...



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