



# **New Directions in Solid State Chemistry: Structure, Synthesis, Properties, Reactivity and Materials Design (Cambridge Solid State Science Series)**

*Chintamani Nagesa Ramachandra Rao, Jagannatha Gopalakrishnan*

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This book presents the highlights of modern solid state chemistry, an emerging area of chemical science. In adopting a unified and up-to-date approach the authors take the reader to the very frontiers of the subject, which is concerned primarily with new methods of synthesis, identification and characterization of solids, and above all with new strategies for tailor-making materials with desirable and controllable properties. The eight chapters are devoted to structure, methods of characterization, preparative strategies, phase transitions, defects and non-stoichiometry, structure-property relations, materials design, and reactivity of solids. Each of these reflects the way solid state chemistry is growing today and brings out the flavour of the subject to show how it works. In addition, every chapter ends with a list of important references.

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