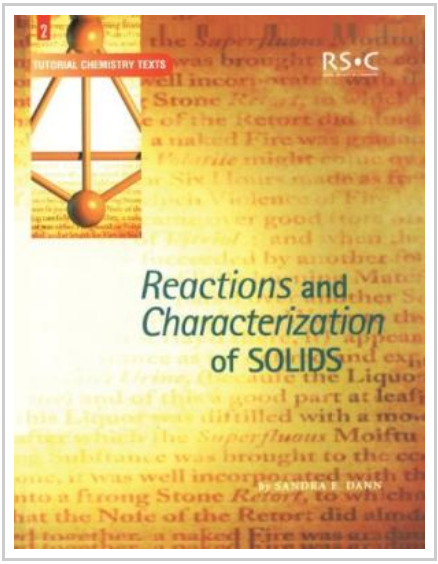

Reactions and Characterization of Solids: Rsc

By Sandra E. Dann

Royal Society of Chemistry. Paperback. Book Condition: New. Paperback. 208 pages. Dimensions: 9.5in. x 7.4in. x 0.5in.The last twenty years or so has seen a change in the perception of solid state chemistry, in particular the scientific significance of understanding the relationship between chemical structure and physical properties. As such, it now forms an important part of both mainstream chemistry and material science degrees. Reactions and Characterization of Solids is designed as an introductory text with plenty of illustrative examples to reinforce the essentials of the topic. In the first few chapters, the fundamental principles of elementary crystal chemistry are introduced, together with the principles of both preparing and characterizing materials in the solid state. Some elementary thermodynamics are also included at this stage to introduce the idea of bond strength as a method of determining and predicting compound stability. General physical properties such as electronic and magnetic behaviour are discussed, together with specific topics relating to solid state materials such as non-stoichiometry. Furthermore, several solid state materials are described in detail, relating the fundamental properties and structural behaviour covered throughout the book to real systems and working materials. Ideal for the needs of undergraduate chemistry students, Tutorial Chemistry Texts...

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