

Crystals and Crystal Structures

Crystallography plays an important part in a wide range of disciplines, including biology, chemistry, materials science and technology, mineralogy, physics, and engineering. Crystals and Crystal Structures is an introductory text for students and others who need to enable students to read scientific papers and articles describing a crystal structure or use enable stude3nts to read scientific papers and articles describing a crystal structure or use crystallographic databases with confidence and understanding. reflecting the interdisciplinary nature of the subject, the book includes a variety of applications as diverse as the relationship between physical properties and symmetry, and molecular and protein crystallography. As well as covering the basics the book contains an introduction to areas of crystallography, such as modulated structures and quasicrystals, and protein crystallography, which are the subject of important and active research. Features * A non-mathematical introduction to the key elements o the subject * Contains numerous applications across a variety of disciplines * Includes a range of problems and exercises Written by an author with many years teaching and research experience Crystals and Crystal Structures will prove invaluable to students taking an introductory course in crystallography in departments of chemistry, physics, materials science, biosciences and geology.

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