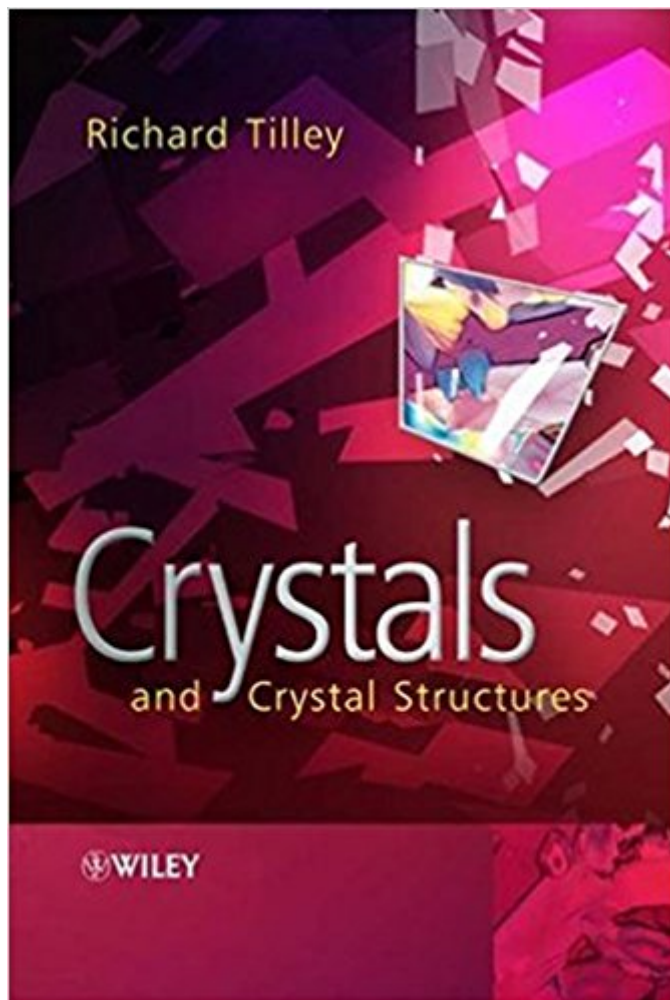




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Crystals And Crystal Structures



Synopsis

Crystals and Crystal Structures is an introductory text for students and others who need to understand the subject without necessarily becoming crystallographers. Using the book will enable students 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.

A non-mathematical introduction to the key elements of the subject
Contains numerous applications across a variety of disciplines
Includes a range of problems and exercises
Clear, direct writing style

"the book contains a wealth of information and it fulfils its purpose of providing an interesting and broad introduction to the terpenes." CHEMISTRY WORLD, February 2007

Book Information

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Customer Reviews

"Overall I can recommend this book for anybody teaching crystallography to undergraduates," (Physical Sciences Educational Reviews, December 2006)

"contains a wealth of information and it fulfils its purpose of providing an interesting and broad introduction to the terpenes." (Chemistry World, February 2007)

“provides a clear introduction to crystal structures” does not overpower the reader with extensive mathematics. (Physical Sciences Educational Reviews, December 2006)

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 students 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 of 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.

The book is a good, undergraduate level introduction to crystallography. It describes the basic concepts, like a Bravais lattice, and the 230 space groups. The key idea to grasp is symmetry. And how this can lead to tiling in two or three dimensions. Giving rise to such structures as a body centred cubic or face centred cubic lattice. The exercises in each chapter should be easy to do. There is relatively little formal maths. The International Notation for these finite groups is also deprecated.

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