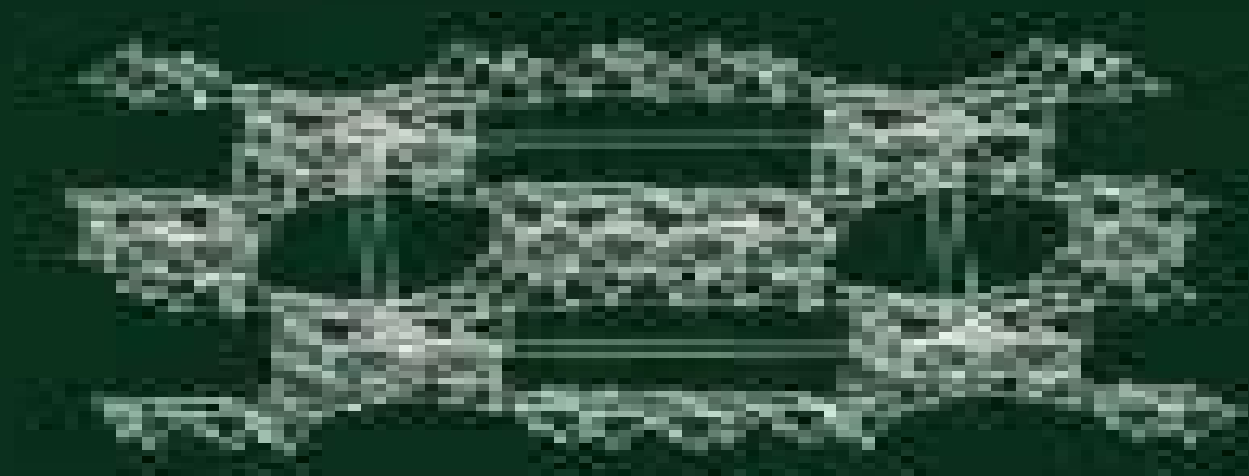


# Crystallography of Modular Materials

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# Crystallography Of Modular Materials

**Richard J. D. Tilley**



## **Crystallography Of Modular Materials:**

Crystallography of Modular Materials Giovanni Ferraris, Emil Makovicky, Stefano Merlino, 2004-03-25 This is the first book to provide a comprehensive treatment of theories and applications in the rapidly expanding field of the crystallography of modular materials Molecules are the natural modules from which molecular crystalline structures are built Most inorganic structures however are infinite arrays of atoms and some kinds of surrogate modules e g coordination polyhedra are usually used to describe them In recent years the attention has been focused on complex modules as the basis for a systematic description of polytypes and homologous polysomatic series modular structures This representation is applied to the modelling of unknown structures and understanding nanoscale defects and intergrowths in materials The Order Disorder OD theory is fundamental to developing a systematic theory of polytypism dealing with those structures based on both ordered and disordered stacking of one or more layers Twinning at both unit cell and micro scale together with disorder causes many problems demons for computer based methods of crystal structure determination This book develops the theory of twinning with the inclusion of worked examples converting the demons into useful indicators for unravelling crystal structure In spite of the increasing use of the concepts of modular crystallography for characterising understanding and tailoring technological crystalline materials this is the first book to offer a unified treatment of the results which are spread across many different journals and original papers published over the last twenty years Crystals and Crystal Structures Richard J. D.

Tilley, 2006-08-14 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

**Polymorphism in Molecular Crystals** Joel Bernstein, 2002-05-17 Polymorphism the multiplicity of structures or forms is a term that is used in many disciplines In chemistry it refers to the existence of more than one crystal structure for a particular chemical substance The properties of a substance are determined by its composition and by its structure In the last two decades there has been a sharp rise in the interest in polymorphic systems as an intrinsically interesting phenomenon and as an increasingly important component in the development and marketing of a variety of materials based on organic molecules e g pharmaceuticals dyes and pigments

explosives etc This book summarizes and brings up to date the current knowledge and understanding of polymorphism of molecular crystals and concentrates it in one comprehensive source The book will be an invaluable reference for students researchers and professionals in the field     **Symmetry Relationships between Crystal Structures** Ulrich

Müller,2013-04-04 In crystal chemistry and crystal physics the relations between the symmetry groups space groups of crystalline solids are of special importance Part 1 of this book presents the necessary mathematical foundations and tools the fundamentals of crystallography with special emphasis on symmetry the theory of the crystallographic groups and the formalisms of the needed crystallographic computations Part 2 gives an insight into applications to problems in crystal chemistry With the aid of numerous examples it is shown how crystallographic group theory can be used to make evident relationships between crystal structures to set up a systematic order in the huge amount of known crystal structures to predict crystal structures to analyse phase transitions and topotactic reactions in the solid state to understand the formation of domains and twins in crystals and to avoid errors in crystal structure determinations A broad range of end of chapter exercises offers the possibility to apply the learned material Worked out solutions to the exercises can be found at the end of the book     **Theories and Techniques of Crystal Structure Determination** Uri Shmueli,Professor of Chemistry Uri

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