



# Inorganic Structural Chemistry (Inorganic Chemistry: A Textbook Series)

By Ulrich Müller

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The essential introduction to the understanding of the structure of inorganic solids and materials. This revised and updated 2nd Edition looks at new developments and research results within Structural Inorganic Chemistry in a number of ways, special attention is paid to crystalline solids, elucidation and description of the spatial order of atoms within a chemical compound. Structural principles of inorganic molecules and solids are described through traditional concepts, modern bond-theoretical theories, as well as taking symmetry as a leading principle.

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### **Bibliography**

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### Editorial Review

#### Review

"I found this book useful and I would use it in courses of chemistry or physics of the solid state, advanced inorganic chemistry for undergraduate and postgraduate students." (*The Higher Education Academy Physical Sciences Centre*, June 2008)

"...quite useful for...advanced undergraduate and graduate chemistry students." (*CHOICE*, July 2007)

" ... very useful reading for graduate student coursework ... recommend the work ... with its compact yet broad coverage review of the subject." (*Applied Organometallic Chemistry*, December 2006)

#### Language Notes

Text: English

Original Language: German

#### From the Back Cover

*Inorganic Structural Chemistry* describes the structural principles of inorganic molecules and solids using traditional concepts as well as modern approaches. It includes the systematic ordering of the recognized structure types, relationships amongst them, and the link between structure and properties.

#### Contents include:

- how to describe chemical structures
- symmetry
- phase transitions and phase diagrams
- the interplay of chemical bonding-energy-structure
- factors governing the structure of ionic compounds, molecules and metals
- chemical bonding in solids - band theory
- structure of the elements
- structural principles of polyanionic, polycationic and cluster compounds
- sphere packings in metals and compounds
- solid state structures seen as arrays of linked polyhedra and as sphere packings with occupied interstices
- symmetry as an ordering principle of crystal structures
- physical properties of solids
- nanostructures

In this second edition of this popular textbook, the text has been revised and new scientific findings have been taken into consideration. For example, many recently discovered modifications of the elements have been included, most of which occur at high pressures. Particular attention is given to the treatment of symmetry throughout the book. New sections deal with quasicrystals and other not strictly crystalline solids, with phase transitions and with the electron localization function. There is a new chapter on nanostructures.

#### *Inorganic Chemistry: A Wiley Textbook Series*

This series reflects the pivotal role of modern inorganic and physical chemistry in a whole range of emerging

areas, such as materials chemistry, green chemistry and bioinorganic chemistry, as well as providing a solid grounding in established areas such as solid state chemistry, coordination chemistry, main group chemistry and physical inorganic chemistry.

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