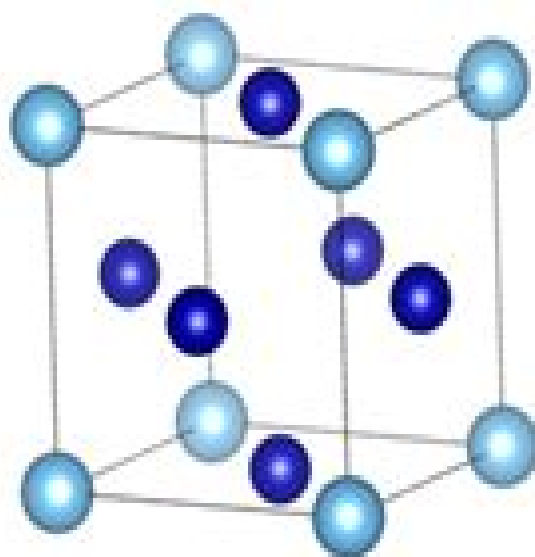
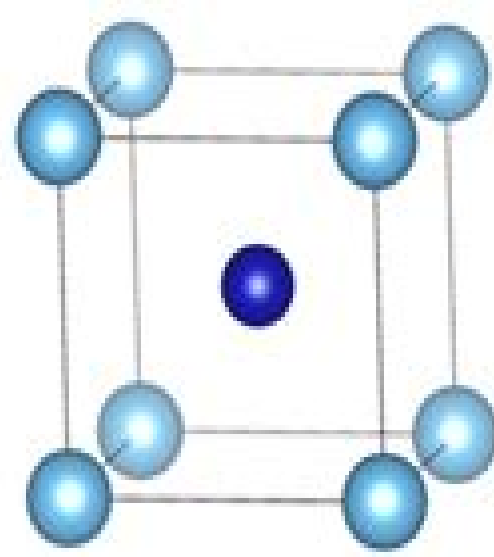


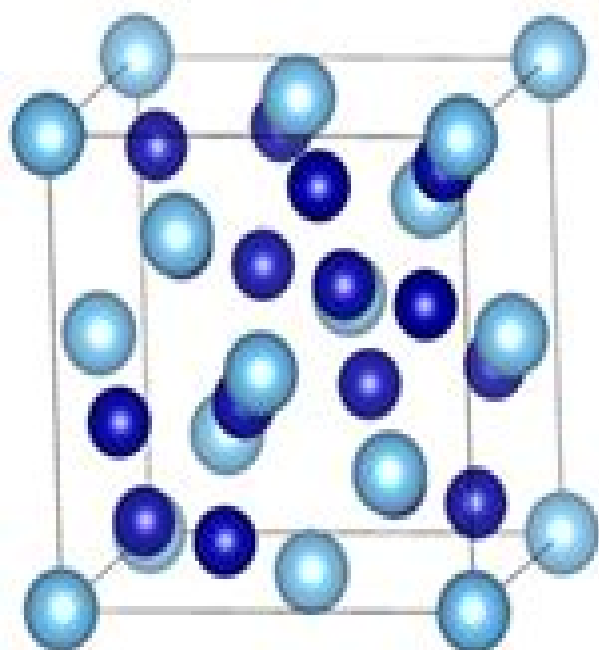
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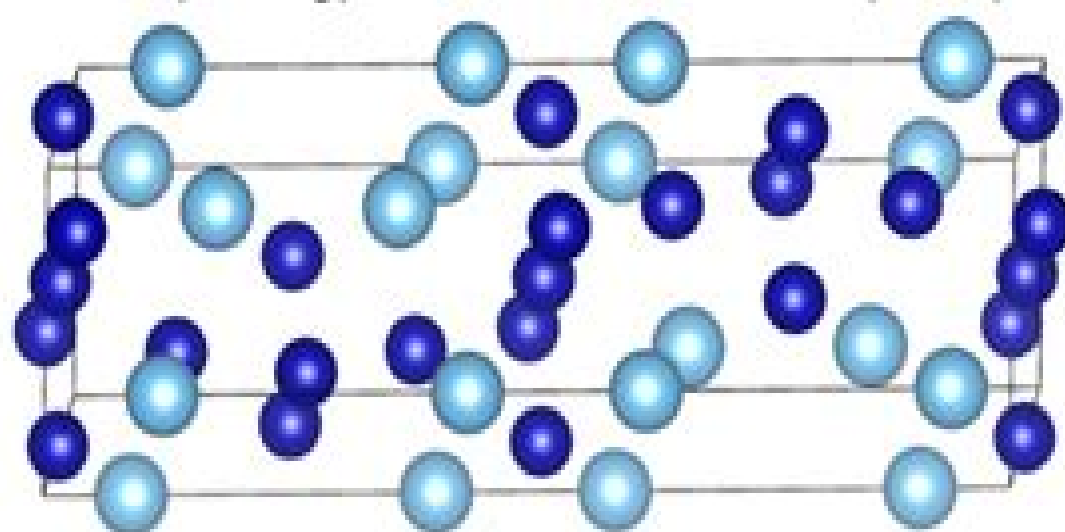
(TiCo_3)



(TiCo)



($\text{TiCo}_2(\text{c})$)



($\text{TiCo}_2(\text{h})$)

● Co

● Ti

Crystal Structures Of Intermetallic Compounds

Riccardo Ferro, Adriana Saccone



Crystal Structures Of Intermetallic Compounds:

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Intermetallics Walter Steurer, Julia Dshemuchadse, 2016-09-09 The fascinating world of intermetallics is largely unexplored There are many exciting physical properties and important technological applications of intermetallics from magnetism to superconductivity The main focus of this book is on the statistics topology and geometry of crystal structures and structure types of intermetallic phases The underlying physics in particular chemical bonding is discussed whenever it helps understand the stability of structures and the origin of their physical properties The authors approach based on the statistical analysis of more than twenty thousand intermetallic compounds in the data base Pearson's Crystal Data uncovers important structural relationships and illustrates the relative simplicity of most of the general structural building principles It also shows that a large variety of actual structures can be related to a rather small number of archetypes The text aims to be readable and beneficial in one way or another to everyone interested in intermetallic phases from graduate students to experts in solid state chemistry and physics and materials science For that purpose it avoids the use of enigmatic abstract terminology for the classification of structures Instead it focuses on the statistical analysis of crystal structures and structure types in order to draw together a larger overview of intermetallics and indicate the gaps in it areas still to be explored and potential sources of worthwhile research The text should be read as a reference guide to the incredibly rich world of intermetallic phases

Intermetallic Compounds, Magnetic, Electrical and Optical Properties and Applications of J. H. Westbrook, R. L. Fleischer, 2000-06-15 This volume is one of four each of which consists of reprinted chapters from the highly acclaimed comprehensive two volume set *Intermetallic Compounds Principles and Practice* published in 1995 In some cases the author or authors have added a brief addendum to bring their chapter up to date and in other cases more recent references have been added Chapters have been selected and grouped in subject areas to provide more easily accessible and user friendly volumes for individual researchers The other titles in this four volume set are *Crystal Structures of Intermetallic Compounds* *Basic Mechanical Properties and Lattice Defects of Intermetallic Compounds* *Structural Applications of Intermetallic Compounds* *The Crystal Structures of Intermetallic Compounds in the Yttrium-zinc System* K. S. Sree Harsha, **Handbook of Crystal Structures and Magnetic Properties of Rare Earth Intermetallics** Andrej Szytula, 2020-07-09 Rare earth intermetallics also known as lanthanide elements play an important role in the study of magnetic materials and the development of semi and super conducting materials This handbook provides an up to date compilation of crystallographic physical and magnetic data on rare earth intermetallic compounds Over 20 different structure

types are described in detail with an emphasis on how crystal structure can affect magnetic properties Theoretical models for magnetic interactions are described as well as the impact of crystal electric fields on transport properties magneto crystalline anisotropy and hyperfine interactions This book provides materials scientists engineers and physicists with all the critical information needed to use rare earth intermetallics effectively in the development of new materials **The Crystal**

Structures of Some Intermetallic Compounds Between Metals of Groups IV and VIII Donald Max Bailey,1961

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Johrendt,2014-09-23 Intermetallic compounds play an extraordinary role in daily life for construction materials and well

defined functions that are based on their specific chemical and physical properties e g magnetism and superconductivity

High tech materials are meanwhile indispensable in our technology driven information society The Periodic Table comprises

more than 80 metallic elements which offer an incredible potential for formation of binary ternary and even multinary

intermetallic compounds with peculiar crystal structures and properties The present textbook introduces into the basics of

intermetallic chemistry with an emphasis on crystal chemistry and selected chemical and physical properties The Crystal

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