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Nonstoichiometric Compounds

As Chapter 1 emphasizes, the law of definite proportions was one of the principal pieces of evidence that led to the acceptance of Dalton's atomic theory. It is now recognized that a great many solid-state binary compounds do *not* have fixed and unvarying compositions but exist over a range of compositions in a single phase. Thus, FeO (wüstite) has the composition range $\text{Fe}_{0.85}\text{O}_{1.00}$ to $\text{Fe}_{0.95}\text{O}_{1.00}$ and is never found with its nominal 1:1 composition. The compounds NiO and Cu_2S also deviate considerably from their nominal stoichiometries.

The explanation depends on the existence of more than one oxidation state for the metal. In wüstite, iron can exist in either the +2 or the +3 oxidation state. Suppose a solid were to begin at the hypothetical composition of $\text{Fe}_{1.00}\text{O}_{1.00}$, with iron entirely in the +2 oxidation state. For every two Fe^{3+} ions introduced, three Fe^{2+} ions must be removed to maintain overall charge neutrality. The total number of moles of iron is then less than that in the ideal FeO stoichiometry. The departure from the nominal stoichiometry can be far more extreme than that found

in wüstite. The composition of "TiO" ranges from $\text{Ti}_{0.75}\text{O}$ to $\text{Ti}_{1.45}\text{O}$. Nickel oxide varies only from $\text{Ni}_{0.97}\text{O}$ to NiO in composition, but the variation is accompanied by a dramatic change in properties. When the compound is prepared in the 1:1 composition, it is pale green and is an electrical insulator. When it is prepared in an excess of oxygen, it is black and conducts electricity fairly well. In the black material, a small fraction of Ni^{2+} ions are replaced by Ni^{3+} ions, and compensating vacancies occur at some nickel atom sites in the crystal.

Nonstoichiometric Compounds

J. Nowotny, W. Weppner



Nonstoichiometric Compounds:

Transport in Nonstoichiometric Compounds George Simkovich, 2012-12-06 Prior to the 9th International Conference on Reactivity Solids in Krakow Poland a group of about 25 international scientists held a special conference entitled Transport in Nonstoichiometric Compounds in late Aug 1980 in Mogilany Poland near Krakow This conference was well received in view of the interaction between the participants as well as the resulting publication of the proceedings Elsevier Scientific Publishing Company 1982 edited by J Nowotny At this first conference the participants decided that it would be desirable to organize similar conferences at about two year intervals Thus a second meeting was held in late June early July at Alenya Pyrenees Orientales France This conference had a larger number of participants about 50 but still managed to promote excellent interaction between all the participants These proceedings with editors G Petot Ervas Hj Matzke and C Monty have also been published by Elsevier as a special edition of the journal Solid State Ionics Vol 12 1984 In view of the success of the initial two conferences a third meeting was organized and held at The Pennsylvania State University University Park PA 16802 U S A from 11 June 84 to 15 June 84 The proceedings of this conference are presented in the following text

Disorder and Order in Strongly Nonstoichiometric Compounds A.I. Gusev, A.A. Rempel, A.J. Magerl, 2013-03-09 long to understand that the phenomena associated with the redistribution of interstitial atoms and structural vacancies in non stoichiometric compounds represent an excellent model of analogous phenomena arising in solid state systems with mutual substitution of components Therefore methods of analysis and description proposed and developed for nonstoichiometric compounds are applicable to a number of systems with substitutional disorder In 1980 when we embarked on this work ordering in nonstoichiometric compounds was assumed to be a rare and accidental effect which hardly deserved close attention Now many people understand that ordering represents a general regular phenomenon in all non stoichiometric compounds Ordering effects which were not even mentioned or were referred to as something insignificant and negligible just 20 years ago proved to be numerous and comparable in magnitude with the change of properties in the whole homogeneity interval of non stoichiometric compounds Phase diagrams of binary systems of transition metals with carbon and nitrogen which remained unchanged from the time they were plotted in 1950 60s and containing one or two nonstoichiometric compounds were enriched with many ordered phases Unfortunately the accumulated experimental and theoretical knowledge has not so far been disseminated widely

Non-Stoichiometric Compounds J. Nowotny, W. Weppner, 2012-12-06 The material in this book is based on invited and contributed papers presented at the NATO Advanced Research Workshop on Non stoichiometric Compounds held in Ringberg Castle Rottach Egern Bavarian Alps Germany July 3 9 1988 The workshop followed previous meetings held in Mogilany Poland 1980 Alenya France 1982 Penn State USA 1984 and Keele University UK 1986 The aim of these workshops is to present and discuss up to date knowledge in the study of non stoichiometry and its effect on materials properties as well as to indicate the most urgent research pathways required in this

field Since the subject of non stoichiometry is interdisciplinary the workshops bring together solid state physicists and chemists surface scientists materials scientists ceramists and metallurgists The present workshop which gathered 42 scientists of an international reputation mainly considered the effect of surfaces grain boundaries and structural defects on materials properties From discussions during this meeting it emerged that correct understanding of properties of ceramic materials requires urgent studies on the defect structure of the interface region Progress in this direction requires the development of the interface defect chemistry This is the task for materials scientists in the near future The present proceedings includes both theoretical and experimental work on general aspects of non stoichiometry defect structure and diffusion in relation to the bulk and to the interface region of such materials as high tech ceramics solid electrolytes electronic ceramics nuclear materials and high Tc oxide superconductors

Nonstoichiometric Compounds Ronald Ward, American Chemical Society, Division of Inorganic Chemistry, 1963

Disorder and Order in Strongly Nonstoichiometric Compounds A.I. Gusev, A.A. Rempel, A.J. Magerl, 2001-08-13 Deals with the influence of stoichiometry and order disorder on materials properties It summarizes the knowledge available in a comprehensive way

Nonstoichiometric Oxides O.T. Soerensen, 2012-12-02 Nonstoichiometric Oxides discusses the thermodynamic and structural studies of nonstoichiometric oxides This eight chapter text also covers the defect defect interactions in these compounds The introductory chapters describe the thermodynamic properties of nonstoichiometric oxides in terms of defect complexes using the classical thermodynamic principles and from a statistical thermodynamics point of view These chapters also include statistical thermodynamic models that indicate the ordered nonstoichiometric phase range in these oxides The subsequent chapters examine the transport properties such as diffusion and electrical conductivity Diffusion theories and experimental diffusion coefficients for several systems as well as the electrical properties of the highly defective ionic and mixed oxide conductor are specifically tackled in these chapters The concluding chapters present the pertinent results obtained in nonstoichiometric oxide structural studies using high resolution electron microscopy and X ray and neutron diffraction Inorganic chemists and inorganic chemistry teachers and students will greatly appreciate this book

Transport in Nonstoichiometric Compounds G. Petot-Ervas, Claude Monty, 1984

Modern Inorganic Synthetic Chemistry Ruren Xu, Yan Xu, 2017-02-11 Modern Inorganic Synthetic Chemistry Second Edition captures in five distinct sections the latest advancements in inorganic synthetic chemistry providing materials chemists chemical engineers and materials scientists with a valuable reference source to help them advance their research efforts and achieve breakthroughs Section one includes six chapters centering on synthetic chemistry under specific conditions such as high temperature low temperature and cryogenic hydrothermal and solvothermal high pressure photochemical and fusion conditions Section two focuses on the synthesis and related chemistry problems of highly distinct categories of inorganic compounds including superheavy elements coordination compounds and coordination polymers cluster compounds organometallic compounds inorganic polymers and

nonstoichiometric compounds Section three elaborates on the synthetic chemistry of five important classes of inorganic functional materials namely ordered porous materials carbon materials advanced ceramic materials host guest materials and hierarchically structured materials Section four consists of four chapters where the synthesis of functional inorganic aggregates is discussed giving special attention to the growth of single crystals assembly of nanomaterials and preparation of amorphous materials and membranes The new edition s biggest highlight is Section five where the frontier in inorganic synthetic chemistry is reviewed by focusing on biomimetic synthesis and rationally designed synthesis Focuses on the chemistry of inorganic synthesis assembly and organization of wide ranging inorganic systems Covers all major methodologies of inorganic synthesis Provides state of the art synthetic methods Includes real examples in the organization of complex inorganic functional materials Contains more than 4000 references that are all highly reflective of the latest advancement in inorganic synthetic chemistry Presents a comprehensive coverage of the key issues involved in modern inorganic synthetic chemistry as written by experts in the field

Chemistry of Non-stoichiometric Compounds

Kosuge,1994-01-13 This unified presentation of the chemistry of non stoichiometric compounds is the first monograph on the subject for two decades Based on statistical thermodynamics and structural inorganic chemistry with descriptions of modern examples and applications this will be useful to both researchers in industry and undergraduates in solid state chemistry and physics

Structure Processing Properties Relationships in Stoichiometric and Nonstoichiometric Oxides Speranta

Tanasescu,2020-11-04 The interrelation among composition microstructure and properties of stoichiometric and nonstoichiometric compounds is a major field of research for both scientific and technological reasons As such this book focuses on metal oxides which present a large diversity of electrical magnetic optical optoelectronic thermal electrochemical and catalytic properties making them suitable for a wide range of applications By bringing together scientific contributions with special emphasis on the interrelations between materials chemistry processing microstructures and properties of stoichiometric and nonstoichiometric metal oxides this book highlights the importance of tightly integrating high throughput experiments including both synthesis and characterization and efficient and robust theory for the design of advanced materials

Materials sciences overview ,1977 **ERDA.** ,1977 **Solid State Chemistry** Elaine A. Moore,Jennifer

Readman,2025-05-22 Solid State Chemistry An Introduction 6th Edition is a fully revised edition of one of our most successful textbooks with at least 20% new information and new images of crystal structures Solid state chemistry is still a rapidly advancing field contributing to areas such as batteries for transport and energy storage nanostructured materials and porous materials for the capture of carbon dioxide and other pollutants This edition aims as previously not only to teach the basic science that underpins the subject but also to direct the reader to the most modern techniques and to expanding and new areas of research The user friendly style takes a largely non mathematical approach and gives practical examples of applications of solid state materials and concepts The chapter on sustainability written by an expert in the field has been

updated and examples of the relevance of solid state chemistry to sustainability are used throughout The chapter on batteries has been extended to include fuel cells Other new topics in this edition include X ray free electron laser crystallography and thermal properties of materials A companion website offering accessible resources for students and instructors alike featuring topics and tools such as quizzes videos web links and more has been provided for this edition

Nanostructures: Synthesis, Functional Properties and Application Thomas Tsakalakos, Ilya A. Ovid'ko, Asuri K. Vasudevan, 2012-12-06 The Advanced Study Institute on Synthesis Functional Properties and Applications of Nanostructures held at the Knossos Royal Village Heraklion Crete Greece July 26 2002 August 4 2002 successfully reviewed the state of the art of nanostructures and nanotechnology It was concluded that Nanotechnology is widely agreed to be the research focus that will lead to the next generation of breakthroughs in science and engineering There are three cornerstones to the expectation that Nanotechnology will yield revolutionary advances in understanding and application Breakthroughs in properties that arise from materials fabricated from the nanoscale Synergistic behavior that arise from the combination of disparate types of materials soft vs hard organic vs inorganic chemical vs biological vs solid state at the nanoscale Exploitation of natural e g chemical and biological assembly mechanisms that can accomplish structural control at the nanoscale It is expected that this will lead to paradigms for assembling bio inspired functional systems that accomplish desirable properties that are either unavailable or prohibitively expensive using top down approaches

Intermetallics Research Progress Yakov N. Berdovsky, 2008 Intermetallics is concerned with all aspects of ordered chemical compounds between two or more metals and notably with their applications This book covers new and important research on the crystal chemistry and bonding theory of intermetallics determination and analysis of phase diagrams the nature of superlattices antiphase domains and order disorder transitions the geometry and dynamics of dislocations and related defects in intermetallics theory and experiments relating to flow stress work hardening fatigue and creep response of deformed intermetallics to annealing magnetic and electrical properties of intermetallics structure and properties of grain and interphase boundaries the effect of deviations from stoichiometry on physical and mechanical properties crystallisation of intermetallics from the melt or amorphous precursors

Selected Topics in High Temperature Chemistry Ø. Johannesen, A.G. Andersen, 2017-01-31 The properties of materials at high temperature play a vital role in their processing and practical use The real properties of materials at elevated temperatures are very often governed by defects in their structure Lattice defects may consist of point defects like vacancies interstitial atoms or substituted atoms These classes are discussed in general and specifically for oxides nitrides carbides and sulfides Defect aggregates shear structures and adaptive structures are also described Special attention is paid to hydrogen defects which seem to play an important role in several materials Defects in solids lead to transport properties such as diffusion and conductivity These themes are thoroughly treated in this book with examples from various materials being provided Special attention is paid to the transport properties of grain boundaries In high

temperature corrosion and other types of oxidation the diffusion of atoms through the reaction products is often the rate limiting step of the reaction This book takes the reader from the theoretical treatment of defects to applications in high temperature corrosion Reactions between metals and pure oxygen lead to the formation of oxides on the surface and the reaction rates may often be related to the diffusion coefficients of the oxide However in practical use alloys are subjected to other severe gaseous atmospheres which may often lead to accelerated attack on the material The severest condition namely where a salt deposit is combined with oxidizing gases is called hot corrosion This and other types of corrosion are also covered Finally a chapter is devoted to the prevention of corrosive attack on materials by the addition of rare earth metals The book has been published in honour of Professor Per Kofstad on the occasion of his 60th birthday Professor Kofstad has for many years been active in the field of high temperature chemistry in all its aspects from basic and theoretical work to its application in high temperature corrosion of metals and alloys The various chapters have been contributed by his friends and colleagues all of whom are international experts in the field

Nanocrystalline Materials Aleksandr Ivanovich Gusev, Andreï Andreevich Rempel', 2004 In the monograph the first of this type in the world the authors discuss systematically the current state of investigations into nanocrystalline materials The experimental results on the effect of the nanocrystalline state on the microstructure and the mechanical thermophysical optical and magnetic properties of metals alloys and solid phase compounds are generalised Special attention is given to the main methods of production of isolated nanoparticles ultrafine powders and dense nanocrystalline materials The dimensional effects in isolated nanoparticles and high density nanocrystalline materials are discussed in detail and the important role of the interface in the formation of the structure and properties of dense nanocrystalline materials is shown The modelling considerations explaining special features of the structure and anomalous properties of substances in the nanocrystalline condition are analysed

Ultra-High Temperature Materials III Igor L. Shabalin, 2020-07-07 This exhaustive work in several volumes and over 2500 pages provides a thorough treatment of ultra high temperature materials with melting points around or over 2500 C The first volume focuses on carbon graphene graphite and refractory metals W Re Os Ta Mo Nb and Ir whilst the second and third are dedicated to refractory transition metal 4 5 groups carbides Topics included are physical structural thermal electro magnetic optical mechanical nuclear and chemical more than 3000 binary ternary and multi component systems including those used for materials design data on solid state diffusion wettability interaction with various elements and compounds in solid and liquid states gases and chemicals in aqueous solutions properties of these materials It will be of interest to researchers engineers postgraduate graduate and undergraduate students alike The readers users are provided with the full qualitative and quantitative assessment which is based on the latest updates in the field of fundamental physics and chemistry nanotechnology materials science design and engineering

September 16, 1984 Görlich, 2022-02-07 No detailed description available for September 16 1984

Tungsten Carbides Alexey S. Kurlov, Aleksandr I. Gusev, 2013-09-12 This

book embraces the entire range of problems associated with phase equilibria in tungsten carbon binary system and related ternary systems nonstoichiometry disorder and order in different tungsten carbides electronic and crystal structure of these carbides The main application of tungsten carbides is constituent in hardmetals for cutting tools In the last 20 years the most active efforts were made in synthesis and application of nanocrystalline tungsten carbide for the production of nanostructured hardmetals The present book describes in detail different methods for production of nanocrystalline tungsten carbide The peculiarities of sintering of Co hardmetals from nanocrystalline powders having different particle sizes are discussed Materials scientists using tungsten carbide to create novel superhard and tough materials will find this book particularly useful

Nonstoichiometric Compounds Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Nonstoichiometric Compounds**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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