



# Alloy Phase Stability

**John C. Lippold, Samuel D. Kiser, John  
N. DuPont**



## **Alloy Phase Stability:**

**Order and Phase Stability in Alloys** F. Ducastelle, 1991 Hardbound The main purpose of this book is to describe the modern tools of solid state physics in particular electronic structure calculations and statistical thermodynamics that enable us to understand ordering effects in alloys and to determine phase diagrams This approach is used more to throw light on the most important physical mechanisms rather than to be able to make accurate predictions suitable for particular applications On the other hand more phenomenological practically oriented approaches can expand the scope of these new theoretical insights A second purpose of the book is to show that materials science can provide wonderful and too often ignored examples to test and discuss the most fundamental physical theories For example many real alloys on a face centered cubic lattice are marvellous examples of the Ising model on this lattice with many different ordered structures commensurate or not The text is therefore defi

*Alloy Phase Stability* G. M. Stocks, A. Gonis, 1989 Alloy Phase Stability G.M. Stocks, A. Gonis, 2012-12-06 One of the ultimate goals of materials research is to develop a fundamental and predictive understanding of the physical and metallurgical properties of metals and alloys Such an understanding can then be used in the design of materials having novel properties or combinations of proper ties designed to meet specific engineering applications The development of new and useful alloy systems and the elucidation of their properties are the domain of metallurgy Traditionally the search for new alloy systems has been conducted largely on a trial and error basis guided by the skill and intuition of the metallurgist large volumes of experimental data the principles of 19th century thermodynamics and ad hoc semi phenomenological models Recently the situation has begun to change For the first time it is possible to understand the underlying mechanisms that control the formation of alloys and determine their properties Today theory can begin to offer guidance in predicting the properties of alloys and in developing new alloy systems Historically attempts directed toward understanding phase stability and phase transitions have proceeded along distinct and seemingly diverse lines Roughly we can divide these approaches into the following broad categories 1 Experimental determination of phase diagrams and related properties 2 Thermodynamic statistical mechanical approaches based on semi phenomenological models and 3 Ab initio quantum mechanical methods Metallurgists have traditionally concentrated their efforts in cate gories 1 and 2 while theoretical physicists have been preoccupied with 2 and 3

*Phase Stability in Metals and Alloys* Battelle Memorial Institute, 1967 Structural and Phase Stability of Alloys J. L. Morán-López, F. Mejía-Lira, J. M. Sanchez, 2012-12-06 This volume contains the papers presented at the Adriatico Research Conference on Structural and Phase Stability of Alloys held in Trieste Italy in May 1991 under the auspices of the International Centre for Theoretical Physics The conference brought together participants with a variety of interests in theoretical and experimental aspects of alloys from Argentina Belgium Bulgaria Czechslovakia France Germany Italy Japan Mexico People s Republic of Congo Portugal Switzerland United Kingdom United States U S S R and Venezuela The conference was purposely designed to succinctly cover experimental and

theoretical aspects of magnetic and non magnetic alloys surfaces thin films and nanostructures The Conference opened with an overview of a select class of advanced structural materials with a potential in engineering applications for which the conventional physics approach both theoretical and experimental should have a significant impact A number of papers were dedicated to the use of phenomenological approaches for the description of thermodynamic bulk and surface properties It was clear from these presentations that the phenomenological models and simulations in alloy theory have reached a high degree of sophistication Although with somewhat limited predictive powers the phenomenological models provide a valuable tool for the understanding of a variety of subtle phenomena such as short range order phase stability kinetics and the thermodynamics of surfaces and antiphase boundaries to name a few

**Alloy Phase Stability and Design: Volume 186** G. Malcolm Stocks, David P. Pope, Anthony F. Giamei, 1991 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners

**Noble Metal Alloys** T. B. Massalski, 1986

**Computational Studies of Alloy Phase Stability** David Morgan, 1998

**Structural and Phase Stability of Alloys**, 1992-05-01

Piezoelectricity, Phase Stability, and Surface Diffusion in Multicomponent Nitrides Christopher Tholander, 2016-03-08 The last hundred years have been full of scientific discoveries leading to technological advances such as computers smart phones etc Most of the advances would not have been possible without new discoveries within the vast field of materials science The specific area within materials science covered in this thesis is multicomponent nitride alloys which are commonly used as thin films in industrial applications e.g. as hard wear resistant coatings for cutting tools or as part of intricate electronic components in mobile telecommunication devices The core of this thesis is towards the fundamental understanding of existing and the discovery of new nitride alloys using theoretical tools Knowledge about the quantum mechanics of the alloys was gained using density functional theory alloy theory and thermodynamics investigating piezoelectricity phase stability and surface diffusion The focus of the piezoelectricity research is on piezoelectric properties of both ordered and disordered nitrides The exploration of disordered wurtzite nitrides revealed important aspects of the nitride alloying physics and the implications for their piezoelectric response in addition to the discovery of interesting alloy candidates and their synthesis e.g.  $\text{YxIn}_{1-x}\text{N}$  For the ordered nitrides novel  $\text{TMZnN}_2$  TM Ti Zr Hf structures with high piezoelectric responses have been predicted as stable The focus of the piezoelectricity research is on piezoelectric properties of both ordered and disordered nitrides The exploration of disordered wurtzite nitrides revealed important aspects of the nitride alloying physics and the implications for their piezoelectric response in addition to the discovery of interesting alloy candidates and their synthesis e.g.  $\text{YxIn}_{1-x}\text{N}$  For the ordered nitrides novel  $\text{TMZnN}_2$  TM Ti Zr Hf structures with high piezoelectric responses have been predicted as stable The thermodynamic stability of novel alloys with interesting properties is investigated in order to determine if equilibrium or non equilibrium synthesis is feasible The studies consist of ternary phase diagrams of TM Zn N mixing enthalpies for disordered  $\text{YxA}_{1-x}\text{N}$  and  $\text{YxIn}_{1-x}\text{N}$  that can be used to predict possible

synthesis routes and guide experiments In addition mixing enthalpies for strained  $\text{Sc}_x\text{Al}_{1-x}\text{N}_y$  superlattices show that the stability of certain phases and therefore the crystalline quality can be improved by modifying in plane lattice parameters through higher indium content in the  $\text{InAlN}$  layers Surface diffusion is studied because it is an important factor during thin film growth with for example physical vapor deposition It is the main atomic transport mechanism and thus governs the structure development of thin films Specifically the research is focused on diffusion on the surfaces of disordered alloys and in particular Ti Al and N adatom diffusion on  $\text{TiN}$  and  $\text{TiAlN}$  surfaces The investigations revealed that Ti adatom mobilities are dramatically reduced in the presence of Al in the surface layer on the  $\text{TiN}$  and  $\text{Ti}_{0.5}\text{Al}_{0.5}\text{N}$  surfaces while Al adatoms are largely unaffected Furthermore the reverse effect is found on the  $\text{TiN}$  surface Al adatom migration is reduced while Ti adatom migration is unaffected In addition it is shown that neglecting the magnetic spin polarization of Ti adatoms will locally underestimate the binding energies and the diffusion path e.g. underestimating the stability of  $\text{TiN}$  bulk sites

**Multiscale Simulations of Alloy Phase Stability**, 2002 First principles atomic scale and continuum level models are combined to predict thermodynamic properties of alloys and stability of phases Many body interactions as well as vacancies defects and non stoichiometry are included in the modeling process and the structural stability of hypothetical phases is evaluated The resulted thermodynamic functions and phase diagrams are integrated in a casting simulation computer program The process of relating microscopic modeling results to the macroscopic heat transfer and phase equilibrium calculations is detailed to emphasize the self consistency of the approach and to identify the potential sources of errors The sequence data acquisition modeling prediction experimental validation is illustrated for several recent results in actinide based alloys

Statics and Dynamics of Alloy Phase Transformations Patrice E.A. Turchi, A. Gonis, 2012-12-06 The study of phase transformations in substitutional alloys including order disorder phenomena and structural transformations plays a crucial role in understanding the physical and mechanical properties of materials and in designing alloys with desired technologically important characteristics Indeed most of the physical properties including equilibrium properties transport magnetic vibrational as well as mechanical properties of alloys are often controlled by and are highly sensitive to the existence of ordered compounds and to the occurrence of structural transformations Correspondingly the alloy designer facing the task of processing new high performance materials with properties that meet specific industrial applications must answer the following question What is the crystalline structure and the atomic configuration that an alloy may exhibit at given temperature and concentration Usually the answer is sought in the phase diagram of a relevant system that is often determined experimentally and does not provide insight to the underlying mechanisms driving phase stability Because of the rather tedious and highly risky nature of developing new materials through conventional metallurgical techniques a great deal of effort has been expended in devising methods for understanding the mechanisms controlling phase transformations at the microscopic level These efforts have been bolstered through the development of fully ab initio accurate theoretical

models coupled with the advent of new experimental methods and of powerful supercomputer capabilities

**Hume-Rothery Rules for Structurally Complex Alloy Phases** Uichiro Mizutani, 2016-04-19 With a history that reaches back some 90 years the Hume Rothery rules were developed to provide guiding principles in the search for new alloys Ultimately the rules bridged metallurgy crystallography and physics in a way that led to the emergence of a physics of the solid state in 1930s although the physical implications of the rules were new

**Phase Stability in Irradiated Alloys by Constrained Equilibrium Thermodynamics** J.P. Holloway, J.F. Stubbins, 1985 A set of equilibrium thermodynamics relationships are developed to account for the effects of fixed levels of interstitials and vacancies on phase free energy in binary alloys Such defects would typically be found in alloys under irradiation and could account for shifts in phase solubility limits and stable temperature ranges While the total defect concentrations are fixed no external constraints are placed on the distribution in types of interstitials These distributions and the alloy phase compositions are allowed to adjust to minimize the system free energy and predict the constrained thermodynamic equilibrium phase structures

**Reduced Activation Materials for Fusion Reactors** R. L. Klueh, 1990

**Welding Metallurgy and Weldability of Nickel-Base Alloys** John C. Lippold, Samuel D. Kiser, John N. DuPont, 2011-09-20 The most up to date coverage of welding metallurgy aspects and weldability issues associated with Ni base alloys Welding Metallurgy and Weldability of Nickel Base Alloys describes the fundamental metallurgical principles that control the microstructure and properties of welded Ni base alloys It serves as a practical how to guide that enables engineers to select the proper alloys filler metals heat treatments and welding conditions to ensure that failures are avoided during fabrication and service Chapter coverage includes Alloying additions phase diagrams and phase stability Solid solution strengthened Ni base alloys Precipitation strengthened Ni base alloys Oxide dispersion strengthened alloys and nickel aluminides Repair welding of Ni base alloys Dissimilar welding Weldability testing High chromium alloys used in nuclear power applications With its excellent balance between the fundamentals and practical problem solving the book serves as an ideal reference for scientists engineers and technicians as well as a textbook for undergraduate and graduate courses in welding metallurgy

Computational Intelligence based Optimization of Manufacturing Process for Sustainable Materials Deepak Sinwar, Kamalakanta Muduli, Vijaypal Singh Dhaka, Vijander Singh, 2023-09-25 The text comprehensively discusses computational models including artificial neural networks agent based models and decision field theory for reliability engineering It will serve as an ideal reference text for graduate students and academic researchers in the fields of industrial engineering manufacturing engineering computer engineering and materials science Discusses the development of sustainable materials using metaheuristic approaches Covers computational models such as agent based models ontology and decision field theory for reliability engineering Presents swarm intelligence methods such as ant colony optimization particle swarm optimization and grey wolf optimization for solving the manufacturing process Include case studies for industrial optimizations Explores the use of computational optimization for

reliability and maintainability theory The text covers swarm intelligence techniques including ant colony optimization particle swarm optimization cuckoo search and genetic algorithms for solving complex industrial problems of the manufacturing industry as well as predicting reliability maintainability and availability of several industrial components     *Electronic Structure of Alloys, Surfaces and Clusters* Abhijit Mookerjee,D.D. Sarma,2002-11-28 Understanding the electronic structure of solids is a basic part of theoretical investigation in physics Application of investigative techniques requires the solid under investigation to be periodic However this is not always the case This volume addresses three classes of non periodic solids currently undergoing the most study alloys surfaces and clusters Understanding the electronic structure of these systems is fundamental not only for the basic science but also constitutes a very important step in various technological aspects such as tuning their stabilities chemical and catalytic reactivities and magnetism Expert practitioners give an up to date account of the field with enough detailed background so that even a newcomer can follow the development The theoretical framework is discussed in addition to the present status of knowledge in the field *Electronic Structure of Alloys Surfaces and Clusters* also includes an extensive bibliography which provides a comprehensive reading list of work on the topic     *Developments in the Structural Chemistry of Alloy Phases* B. C. Giessen,2013-12-14     **High-Entropy Alloys** Michael C. Gao,Jien-Wei Yeh,Peter K. Liaw,Yong Zhang,2016-04-27 This book provides a systematic and comprehensive description of high entropy alloys HEAs The authors summarize key properties of HEAs from the perspective of both fundamental understanding and applications which are supported by in depth analyses The book also contains computational modeling in tackling HEAs which help elucidate the formation mechanisms and properties of HEAs from various length and time scales

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