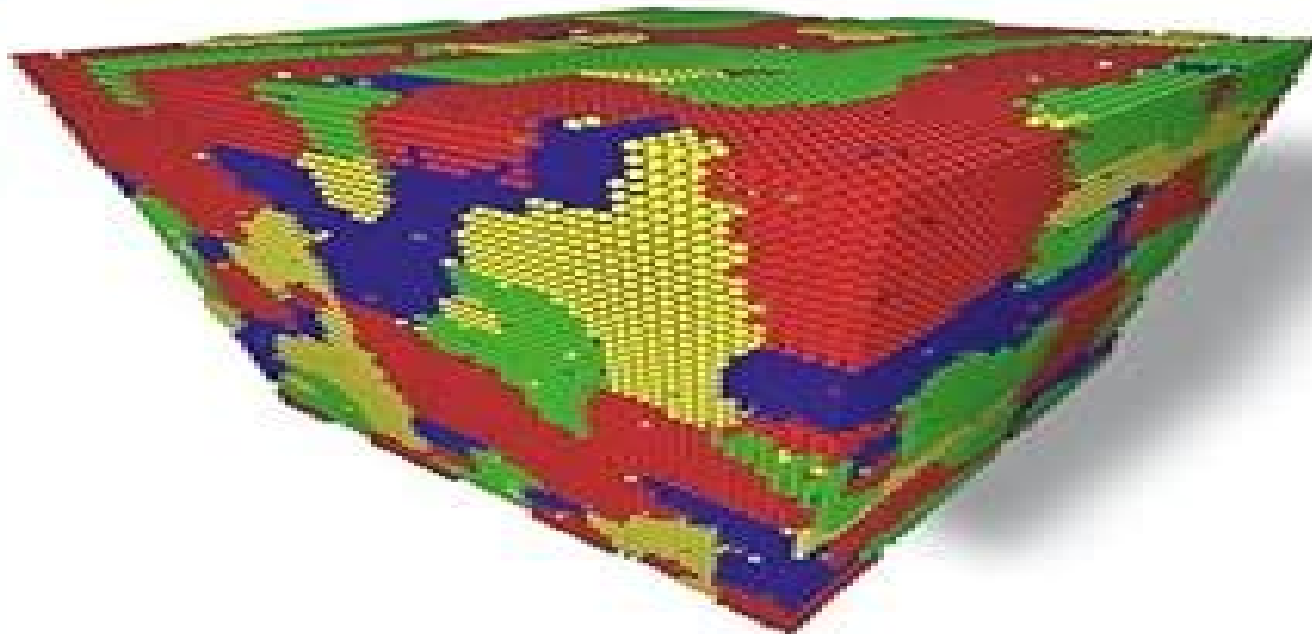


Wolfgang Pfeiler (Ed.)

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Alloy Physics

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Alloy Physics A Comprehensive Reference

Clemens Wendtner



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Alloy Physics Wolfgang Pfeiler, 2008-01-08 Covering the latest research in alloy physics together with the underlying basic principles this comprehensive book provides a sound understanding of the structural changes in metals and alloys ranging from plastic deformation dynamics and ordering kinetics right up to atom jump processes first principle calculations and simulation techniques Alongside fundamental topics such as crystal defects phase transformations and statistical thermodynamics the team of international authors treats such hot areas as nano size effects interfaces and spintronics as well as technical applications of modern alloys like data storage and recording and the possibilities offered by materials design

Handbook of Solid State Chemistry, 6 Volume Set Richard Dronskowski, Shinichi Kikkawa, Andreas Stein, 2017-10-23 This most comprehensive and unrivaled compendium in the field provides an up to date account of the chemistry of solids nanoparticles and hybrid materials Following a valuable introductory chapter reviewing important synthesis techniques the handbook presents a series of contributions by about 150 international leading experts the Who's Who of solid state science Clearly structured in six volumes it collates the knowledge available on solid state chemistry starting from the synthesis and modern methods of structure determination Understanding and measuring the physical properties of bulk solids and the theoretical basis of modern computational treatments of solids are given ample space as are such modern trends as nanoparticles surface properties and heterogeneous catalysis Emphasis is placed throughout not only on the design and structure of solids but also on practical applications of these novel materials in real chemical situations

Modelling Atomic Arrangements in Multicomponent Alloys Christopher D. Woodgate, 2024-08-11 This book provides a comprehensive overview of a computationally efficient approach for modelling the phase behaviour of multicomponent alloys from first principles describing both short and long range atomic ordering tendencies The study of multicomponent alloy systems which combine three or more base elements in near equal ratios has garnered significant attention in materials science due to the potential for the creation of novel materials with superior properties for a variety of applications High entropy alloys which contain four or more base elements have emerged as a particularly fascinating subset of these systems demonstrating extraordinary strength and fracture resistance among other desirable properties The book presents a novel modelling approach for studying the phase behaviour of these systems which is based on a perturbative analysis of the internal energy of the disordered alloy as evaluated within the Korringa Kohn Rostoker KKR formulation of density functional theory DFT using the coherent potential approximation CPA to average over chemical disorder Application of a Landau type theory to an approximate form of the Gibbs free energy enables direct inference of chemical disorder order transitions In addition the perturbative analysis facilitates extraction of atom atom effective pair interactions for further atomistic simulations The connection between the arrangement of atoms in a material and its magnetic properties is also studied By outlining and applying the proposed modelling techniques to several systems of interest this book serves as a

valuable resource for materials scientists physicists and chemists alike seeking to understand and develop new alloy systems with enhanced materials properties

Physical Metallurgy David E. Laughlin, Kazuhiro Hono, 2014-07-24 This fifth edition of the highly regarded family of titles that first published in 1965 is now a three volume set and over 3 000 pages All chapters have been revised and expanded either by the fourth edition authors alone or jointly with new co authors Chapters have been added on the physical metallurgy of light alloys the physical metallurgy of titanium alloys atom probe field ion microscopy computational metallurgy and orientational imaging microscopy The books incorporate the latest experimental research results and theoretical insights Several thousand citations to the research and review literature are included Exhaustively synthesizes the pertinent contemporary developments within physical metallurgy so scientists have authoritative information at their fingertips Replaces existing articles and monographs with a single complete solution Enables metallurgists to predict changes and create novel alloys and processes

Microstructural Design of Advanced Engineering Materials Dmitri A. Molodov, 2013-07-17 The choice of a material for a certain application is made taking into account its properties If for example one would like to produce a table a hard material is needed to guarantee the stability of the product but the material should not be too hard so that manufacturing is still as easy as possible in this simple example wood might be the material of choice When coming to more advanced applications the required properties are becoming more complex and the manufacturer s desire is to tailor the properties of the material to fit the needs To let this dream come true insights into the microstructure of materials is crucial to finally control the properties of the materials because the microstructure determines its properties Written by leading scientists in the field of microstructural design of engineering materials this book focuses on the evolution and behavior of granular microstructures of various advanced materials during plastic deformation and treatment at elevated temperatures These topics provide essential background and practical information for materials scientists metallurgists and solid state physicists

Kinetic Processes Kenneth A. Jackson, 2010-08-09 Kinetic Processes This revised edition provides the reader with an up to date account of the current state of crystal growth kinetics Amidst the new content is published for the first time in a book the groundbreaking results of spinodal decomposition The refined didactical approach with a streamlined presentation now allows readers to grasp the kinetic concepts even more easily coherently introducing the field of kinetic processes especially those involved in crystal growth and explaining such phenomena as diffusion nucleation segregation and phase transitions at a level accessible to graduate students In addition to the basic kinetic concepts the textbook presents modern applications where these processes play a major role including ion implantation plasma deposition and rapid thermal processing

NMR of Quadrupolar Nuclei in Solid Materials Roderick E. Wasylshen, Sharon E. Ashbrook, Stephen Wimperis, 2012-12-19 NMR OF QUADRUPOLEAR NUCLEI IN SOLID MATERIALS Over the past 20 years technical developments in superconducting magnet technology and instrumentation have increased the potential of NMR spectroscopy so that it is now possible to study a wide range of solid materials In addition one can

probe the nuclear environments of many other additional atoms that possess the property of spin. In particular, it is possible to carry out NMR experiments on isotopes that have nuclear spin greater than $\frac{1}{2}$, i.e. quadrupolar nuclei. Since more than two thirds of all NMR active isotopes are quadrupolar nuclei, applications of NMR spectroscopy with quadrupolar nuclei are increasing rapidly. The purpose of this handbook is to provide under a single cover the fundamental principles, techniques and applications of quadrupolar NMR as it pertains to solid materials. Each chapter has been prepared by an expert who has made significant contributions to our understanding and appreciation of the importance of NMR studies of quadrupolar nuclei in solids. The text is divided into three sections. The first provides the reader with the background necessary to appreciate the challenges in acquiring and interpreting NMR spectra of quadrupolar nuclei in solids. The second presents cutting edge techniques and methodology for employing these techniques to investigate quadrupolar nuclei in solids. The final section explores applications of solid state NMR studies of solids ranging from investigations of dynamics, characterizations of biological samples, organic and inorganic materials, porous materials, glasses, catalysts, semiconductors and high temperature superconductors.

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Complex Metallic Alloys Jean-Marie Dubois, Esther Belin-Ferré, 2010-12-13. Covering fundamental research as well as real world applications, this first book on CMAs at an introductory level treats everything from atomistic details to surface processing. Comprehensive self-contained chapters provide readers with the latest knowledge on the most salient features of the topic, selected in terms of their relevance to potential technological applications. Edited by one of the most distinguished authorities on quasicrystals and this most important of their subclasses, the contributions elucidate aspects of CMAs from a particular viewpoint: physical and chemical characteristics in the sub-nanometer regime, mesoscale phenomena, preparation and processing of thin films and large scale engineering properties. The whole is rounded off by a look at the commercial potential of CMA based applications. For PhD students and lecturers alike.

A Review: Chill-Block Melt Spin Technique, Theories & Applications Mustafa Kamal, Usama S. Mohammad, 2013-03-15. Rapid Solidification Processing of molten metals and alloys has proved to be a

reliable route for producing new and advanced materials The Chill Block Melt Spin CBMS technique is important because its simplicity flexibility and perfection High quality materials can be produced with lower costs as compared to other routes by refining the microstructure and trapping the nucleated new metastable phases Melt spun ribbons subsequently produced can then be consolidated to produce billets and sheets that can be used in many industries especially high tech industries such as aerospace and racing automobiles This book contains several perspectives about CBMS technology and should be a useful review for undergraduate and post graduate metallurgy students Gamma Titanium Aluminide Alloys Fritz Appel, Jonathan David Heaton Paul, Michael Oehring, 2011-08-04 The first book entirely dedicated to the topic emphasizes the relation between basic research and actual processing technologies As such it covers complex microstructures down to the nanometer scale structure property relationships and potential applications in key industries From the contents Constitution Thermophysical Constants Phase Transformations and Microstructures Deformation Behaviour Strengthening Mechanisms Creep Fracture Behaviour Fatigue Oxidation Resistance and Related Issues Alloy Design Ingot Production and Component Casting Powder Metallurgy Wrought Processing Joining Surface Hardening Applications and Component Assessment

Phase Transformations in Multicomponent Melts Dieter M. Herlach, 2009-06-10 Bringing together the concerted efforts of the multicomponent materials community in one decisive reference work this handbook covers all the important aspects from fundamentals to applications thermodynamics microscopic processes solidification simulation and modeling As such it provides a vital understanding of melt and solidification processes treating all simulation techniques for continuous and discrete systems such as molecular dynamics Monte Carlo and finite elements calculations *Crystal Growth Technology* Hans J. Scheel, Peter Capper, Peter Rudolph, 2011-07-26 Semiconductors and dielectrics are two essential materials found in cell phones and computers for example and both are manufactured by growing crystals Edited by the organizers of the International Workshop on Crystal Growth Technology this ready reference is essential reading for materials scientists chemists physicists computer hardware manufacturers engineers and those working in the chemical and semiconductor industries They have assembled an international team of experts who present the current challenges latest methods and new applications for producing these materials necessary for the electronics industry using bulk crystal growth technology From the contents General aspects of crystal growth technology Compound semiconductors Halides and oxides Crystal growth for sustaining energy Crystal machining **NBS Technical Note**, 1975 **Oxide Scale Behavior in High Temperature Metal Processing** Michal Krzyzanowski, John H. Beynon, Didier C. J. Farrugia, 2010-03-30 The result of a fruitful on going collaboration between academia and industry this book reviews recent advances in research on oxide scale behavior in high temperature forming processes Presenting novel previously neglected approaches the authors emphasize the pivotal role of reproducible experiments to elucidate the oxide scale properties and develop quantitative models with predictive accuracy Each chapter consists of a detailed systematic examination of different aspects of oxide scale formation

with immediate impact for researchers and developers in industry The clear and stringent style of presentation makes this monograph both coherent and easily readable **Computational Thermo-Fluid Dynamics** Petr A. Nikrityuk,2011-09-19 Combining previously unconnected computational methods this monograph discusses the latest basic schemes and algorithms for the solution of fluid heat and mass transfer problems coupled with electrodynamics It presents the necessary mathematical background of computational thermo fluid dynamics the numerical implementation and the application to real world problems Particular emphasis is placed throughout on the use of electromagnetic fields to control the heat mass and fluid flows in melts and on phase change phenomena during the solidification of pure materials and binary alloys However the book provides much more than formalisms and algorithms it also stresses the importance of good feasible and workable models to understand complex systems and develops these in detail Bringing computational fluid dynamics thermodynamics and electrodynamics together this is a useful source for materials scientists PhD students solid state physicists process engineers and mechanical engineers as well as lecturers in mechanical engineering **A Dictionary of Applied Physics** Sir Richard Glazebrook,1923 Advanced Silicon & Semiconducting Silicon-Alloy Based Materials & Devices Jo Nijs,2021-05-30 One of the first books to cover advanced silicon based technologies Advanced Silicon and Semiconducting Silicon Alloy Based Materials and Devices presents important directions for research into silicon its alloy based semiconducting devices and its development in commercial applications The first section deals with single mono crystalline silicon focusing on the effects of heavy doping the structure and electronic properties of defects and their impact on devices the MBE of silicon silicon alloys and metals CVD techniques for silicon and silicon germanium the material properties of silicon germanium strained layers silicon germanium heterojunction bipolar applications FETs IR detectors and resonant tunneling devices in silicon silicon germanium and d doped silicon and the fascinating properties of crystalline silicon carbide and its applications The second section explores polycrystalline silicon It examines large grain polysilicon substrates for solar cells the properties analysis and modeling of polysilicon TFTs the technology of polysilicon TFTs in LCD displays and the use of polycrystalline silicon and its alloys in VLSI applications With contributors from leading academic and industrial research centers this book provides wide coverage of fabrication techniques material properties and device applications *Annotated Accession List of Data Compilations of the Office of Standard Reference Data* National Measurement Laboratory (U.S.). Office of Standard Reference Data,Herman M. Weisman,Gertrude B. Sherwood,1970 **Publications of the National Bureau of Standards ... Catalog** United States. National Bureau of Standards,1972 **Publications of the National Institute of Standards and Technology ... Catalog** National Institute of Standards and Technology (U.S.),1971

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