



Properties and Applications of Nanocrystalline Alloys from Amorphous Precursors

Edited by

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Marcel Miglierini

NATO Science Series

Properties And Applications Of Nanocrystalline Alloys From Amorphous Precursors

Brian Cantor



Properties And Applications Of Nanocrystalline Alloys From Amorphous Precursors:

Properties and Applications of Nanocrystalline Alloys from Amorphous Precursors Peter Švec, Bogdan Idzikowski, Marcel Miglierini, **Properties and Applications of Nanocrystalline Alloys from Amorphous Precursors** Bogdan Idzikowski, Peter Švec, Marcel Miglierini, 2005-07-18 Metallic magnetic and non magnetic nanocrystalline materials have been known for over ten years but only recent developments in the research into those complex alloys and their metastable amorphous precursors have created a need to summarize the most important accomplishments in the field This book is a collection of articles on various aspects of metallic nanocrystalline materials and an attempt to address this above need The main focus of the papers is put on the new issues that emerge in the studies of nanocrystalline materials and in particular on i new compositions of the alloys ii properties of conventional nanocrystalline materials iii modeling and simulations iv preparation methods v experimental techniques of measurements and vi different modern applications Interesting phenomena of the physics of nanocrystalline materials are a consequence of the effects induced by the nanocrystalline structure They include interface physics the influence of the grain boundaries the averaging of magnetic anisotropy by exchange interactions the decrease in exchange length and the existence of a minimum two phase structure at the atomic scale Attention is also paid to the special character of the local atomic ordering and to the corresponding interatomic bonding as well as to anomalies and particularities of electron density distributions and to the formation of metastable nanocrystalline or quasi crystalline phases built from exceptionally small grains with special properties Another important focus of attention are new classes of materials which are not based on new compositions but rather on the original and special crystalline structure in the nanoscale *Properties and Applications of Nanocrystalline Alloys from Amorphous Precursors* Bogdan Idzikowski, Peter Švec, Marcel Miglierini, 2009-09-03 Metallic magnetic and non magnetic nanocrystalline materials have been known for over ten years but only recent developments in the research into those complex alloys and their metastable amorphous precursors have created a need to summarize the most important accomplishments in the field This book is a collection of articles on various aspects of metallic nanocrystalline materials and an attempt to address this above need The main focus of the papers is put on the new issues that emerge in the studies of nanocrystalline materials and in particular on i new compositions of the alloys ii properties of conventional nanocrystalline materials iii modeling and simulations iv preparation methods v experimental techniques of measurements and vi different modern applications Interesting phenomena of the physics of nanocrystalline materials are a consequence of the effects induced by the nanocrystalline structure They include interface physics the influence of the grain boundaries the averaging of magnetic anisotropy by exchange interactions the decrease in exchange length and the existence of a minimum two phase structure at the atomic scale Attention is also paid to the special character of the local atomic ordering and to the corresponding interatomic bonding as well as to anomalies and particularities of electron density distributions and to the formation of

metastable nanocrystalline or quasi crystalline phases built from exceptionally small grains with special properties Another important focus of attention are new classes of materials which are not based on new compositions but rather on the original and special crystalline structure in the nanoscale

Mössbauer Spectroscopy Yutaka Yoshida, Guido Langouche, 2012-11-08

Tutorials on Mössbauer Spectroscopy Since the discovery of the Mössbauer Effect many excellent books have been published for researchers and for doctoral and master level students However there appears to be no textbook available for final year bachelor students nor for people working in industry who have received only basic courses in classical mechanics electromagnetism quantum mechanics chemistry and materials science The challenge of this book is to give an introduction to Mössbauer Spectroscopy for this level The ultimate goal of this book is to give this audience not only a scientific introduction to the technique but also to demonstrate in an attractive way the power of Mössbauer Spectroscopy in many fields of science in order to create interest among the readers in joining the community of Mössbauer spectroscopists This is particularly important at times where in many Mössbauer laboratories succession is at stake This book will be used as a textbook for the tutorial sessions organized at the occasion of the 2011 International Conference on the Application of Mössbauer Spectroscopy ICAME2011 in Tokyo

Glassy, Amorphous and Nano-Crystalline Materials Jaroslav Šesták, Jiří J. Mareš, Pavel Hubík, 2010-10-26 Provides a summary of non equilibrium glassy and amorphous structures and their macro and microscopic thermal properties The book contains a carefully selected works of fourteen internationally recognized scientists involving the advances of the physics and chemistry of the glassy and amorphous states

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

Handbook of Advanced Magnetic Materials Yi Liu, D.J. Sellmyer, Daisuke Shindo, 2008-11-23 In December 2002 the world's first commercial magnetic levitation super train went into operation in Shanghai The train is held just above the rails by magnetic levitation maglev and can travel at a speed of 400 km/hr completing the 30km journey from the city to the airport in minutes Now consumers are enjoying 50 GB hard

drives compared to 0.5 GB hard drives ten years ago. Achievements in magnetic materials research have made dreams of a few decades ago reality. The objective of the four volume reference Handbook of Advanced Magnetic Materials is to provide a comprehensive review of recent progress in magnetic materials research. Each chapter will have an introduction to give a clear definition of basic and important concepts of the topic. The details of the topic are then elucidated theoretically and experimentally. New ideas for further advancement are then discussed. Sufficient references are also included for those who wish to read the original work. In the last decade one of the most significant thrust areas of materials research has been nanostructured magnetic materials. There are several critical sizes that control the behavior of a magnetic material and size effects become especially critical when dimensions approach a few nanometers where quantum phenomena appear. The first volume of the book Nanostructured Advanced Magnetic Materials has therefore been devoted to the recent development of nanostructured magnetic materials emphasizing size effects. Our understanding of magnetism has advanced with the establishment of the theory of atomic magnetic moments and itinerant magnetism. Simulation is a powerful tool for exploration and explanation of properties of various magnetic materials. Simulation also provides insight for further development of new materials. Naturally before any simulation can be started a model must be constructed. This requires that the material be well characterized. Therefore the second volume Characterization and Simulation provides a comprehensive review of both experimental methods and simulation techniques for the characterization of magnetic materials. After an introduction each section gives a detailed description of the method and the following sections provide examples and results of the method. Finally further development of the method will be discussed. The success of each type of magnetic material depends on its properties and cost which are directly related to its fabrication process. Processing of a material can be critical for development of artificial materials such as multilayer films, clusters, etc. Moreover cost effective processing usually determines whether a material can be commercialized. In recent years processing of materials has continuously evolved from improvement of traditional methods to more sophisticated and novel methods. The objective of the third volume Processing of Advanced Magnetic Materials is to provide a comprehensive review of recent developments in processing of advanced magnetic materials. Each chapter will have an introduction and a section to provide a detailed description of the processing method. The following sections give detailed descriptions of the processing properties and applications of the relevant materials. Finally the potential and limitation of the processing method will be discussed. The properties of a magnetic material can be characterized by intrinsic properties such as anisotropy, saturation magnetization and extrinsic properties such as coercivity. The properties of a magnetic material can be affected by its chemical composition and processing route. With the continuous search for new materials and invention of new processing routes magnetic properties of materials cover a wide spectrum of soft magnetic materials, hard magnetic materials, recording materials, sensor materials and others. The objective of the fourth volume Properties and Applications of Advanced Magnetic Materials is to provide a comprehensive

review of recent development of various magnetic materials and their applications Each chapter will have an introduction of the materials and the principles of their applications The following sections give a detailed description of the processing properties and applications Finally the potential and limitation of the materials will be discussed

Nanoscale Magnetic Materials and Applications J. Ping Liu, Eric Fullerton, Oliver Gutfleisch, D.J. Sellmyer, 2010-04-05 Nanoscale Magnetic Materials and Applications covers exciting new developments in the field of advanced magnetic materials Readers will find valuable reviews of the current experimental and theoretical work on novel magnetic structures nanocomposite magnets spintronic materials domain structure and domain wall motion in addition to nanoparticles and patterned magnetic recording media Cutting edge applications in the field are described by leading experts from academic and industrial communities These include new devices based on domain wall motion magnetic sensors derived from both giant and tunneling magnetoresistance thin film devices in micro electromechanical systems and nanoparticle applications in biomedicine In addition to providing an introduction to the advances in magnetic materials and applications at the nanoscale this volume also presents emerging materials and phenomena such as magnetocaloric and ferromagnetic shape memory materials which motivate future development in this exciting field Nanoscale Magnetic Materials and Applications also features a foreword written by Peter Gr nberg recipient of the 2007 Nobel Prize in Physics

Advances in Crystallization Processes Yitzhak Mastai, 2012-04-27 Crystallization is used at some stage in nearly all process industries as a method of production purification or recovery of solid materials In recent years a number of new applications have also come to rely on crystallization processes such as the crystallization of nano and amorphous materials The articles for this book have been contributed by the most respected researchers in this area and cover the frontier areas of research and developments in crystallization processes Divided into five parts this book provides the latest research developments in many aspects of crystallization including chiral crystallization crystallization of nanomaterials and the crystallization of amorphous and glassy materials This book is of interest to both fundamental research and also to practicing scientists and will prove invaluable to all chemical engineers and industrial chemists in the process industries as well as crystallization workers and students in industry and academia

ISIAME 2008 Ernő Kuzmann, Károly Lázár, 2009-06-16 Proceedings of the International Symposium on the Industrial Applications of the Mossbauer Effect ISIAME 2008 held in Budapest Hungary 17-22 August 2008 E. Kuzmann and K. Lázár Eds This book provides an excellent overview on the most recent results on the industrial applications of Mossbauer spectroscopy attained on the fields of nanotechnology metallurgy biotechnology and pharmaceutical industry applied mineralogy energy production industry coal oil nuclear solar etc computer industry space technology electronic and magnetic devices technology ion implantation technology including topics like characterization of novel construction materials electronic components and magnetic materials composite materials colloids amorphous and nanophase materials small particles coatings interfaces thin films and multilayers catalysis corrosion tribology surface

modification hydrogen storage ball milling radiation effects electrochemistry batteries etc From the various reports a broad overview emerges illustrating that the method can successfully be applied in a wide variety of topics **Advanced**

Magnetic Nanostructures D.J. Sellmyer, Ralph Skomski, 2006-07-02 Advanced magnetic nanostructures is an emerging field in magnetism and nanotechnology but the literature consists of a rich variety of original papers and parts of reviews and books whose scope is comparatively broad This calls for a book with specific emphasis on state of the art synthetic methods for fabricating characterizing and theoretically modeling new magnetic nanostructures This book is intended to provide a comprehensive overview of the present state of the field Leading researchers world wide have contributed a survey of their special ties to guide the reader through the exploding literature in nanomagnetic structures The focus is on deliberately structured nanomagnets It includes cluster assembled self organized and patterned thin films but excludes for example multilayered thin films We target both industrial and academic researchers in magnetism and related areas such as nanotechnology materials science and theoretical solid state physics **Novel Nanocrystalline Alloys and Magnetic**

Nanomaterials Brian Cantor, 2004-10-30 Nanocrystalline materials exhibit remarkable structural electrical magnetic and optical properties which can be exploited in a wide variety of structural and nonstructural applications Potential uses have been identified in the automotive electronic aerospace clothing chemical fuel and lubrication industries with applications ranging from flat panel displays to medical implants Bringing together contributions from leading researchers in academia and industry throughout Europe and Japan Novel Nanocrystalline Alloys and Magnetic Nanomaterials presents a valuable overview of this fast moving field Divided into three sections the book first describes the fabrication and structural characterization of nanocrystalline and amorphous alloys such as aluminium nickel copper titanium and zirconium The second part examines novel nanocrystalline materials that include nano optoelectronics steels manufactured by heavy plastic deformation and metal ceramic and ceramic ceramic nanocomposites The final section reviews the current understanding of magnetic nanomaterials including nanograined materials Ni and Fe nanocrystals soft magnetic Fe M B nanocrystalline alloys and soft and hard ferromagnetic nanocrystalline alloys It also explores the industrial applications of these nanomaterials focusing on their use in the energy and telecommunications fields Combining key coverage of topical developments with well informed indications of potential trends this book lays the groundwork for future advances in nanocrystalline alloys and magnetic nanomaterials *Industrial Applications of the Mössbauer Effect* Desmond C. Cook, Gilbert R. Hoy, 2012-12-06

ISIAME 2000 was organized by the Condensed Matter and Materials Physics Research Group at Old Dominion University Norfolk Virginia It brought together an international group of research scientists and engineers from academia and industry to present details of the most recent investigations on industrially related topics and projects using Mössbauer Spectroscopy as a primary analytical technique These proceedings include the papers presented under the broad topics of Chemistry Surfaces Materials Processing Industrial Processing and Magnetic and Electronic Materials Specific research areas drawing

much interest include corrosion catalysis mechanical alloying petrochemical steel and mineralogical processing nano phase materials and environmental and pollution monitoring The book is of particular interest to university researchers and a very broad range of industrial R D groups who desire to broaden their knowledge of the latest applications and methods of highly resolved spectroscopic analysis of their products Ceramic Nanocomposites Rajat Banerjee,Indranil Manna,2013-07-31 Ceramic nanocomposites have been found to have improved hardness strength toughness and creep resistance compared to conventional ceramic matrix composites Ceramic nanocomposites reviews the structure and properties of these nanocomposites as well as manufacturing and applications Part one looks at the properties of different ceramic nanocomposites including thermal shock resistance flame retardancy magnetic and optical properties as well as failure mechanisms Part two deals with the different types of ceramic nanocomposites including the use of ceramic particles in metal matrix composites carbon nanotube reinforced glass ceramic matrix composites high temperature superconducting ceramic nanocomposites and ceramic particle nanofluids Part three details the processing of nanocomposites including the mechanochemical synthesis of metallic ceramic composite powders sintering of ultrafine and nanosized ceramic and metallic particles and the surface treatment of carbon nanotubes using plasma technology Part four explores the applications of ceramic nanocomposites in such areas as energy production and the biomedical field With its distinguished editors and international team of expert contributors Ceramic nanocomposites is a technical guide for professionals requiring knowledge of ceramic nanocomposites and will also offer a deeper understanding of the subject for researchers and engineers within any field dealing with these materials Reviews the structure and properties of ceramic nanocomposites as well as their manufacturing and applications Examines properties of different ceramic nanocomposites as well as failure mechanisms Details the processing of nanocomposites and explores the applications of ceramic nanocomposites in areas such as energy production and the biomedical field **Handbook of Magnetism and Advanced Magnetic Materials, 5 Volume Set** Helmut Kronmüller,Stuart Parkin,2007-09-11 From the first application of the oxide magnetite as a compass in China in ancient times and from the early middle ages in Europe magnetic materials have become an indispensable part of our daily life Magnetic materials are used ubiquitously in the modern world in fields as diverse as for example electrical energy transport high power electro motors and generators telecommunication systems navigation equipment aviation and space operations micromechanical automation medicine magnetocaloric refrigeration computer science high density recording non destructive testing of materials and in many household applications Research in many of these areas continues apace The progress made in recent years in computational sciences and advanced material preparation techniques has dramatically improved our knowledge of fundamental properties and increased our ability to produce materials with highly tailored magnetic properties even down to the nanoscale dimension Containing approximately 120 chapters written and edited by acknowledged world leaders in the field The Handbook of Magnetism and Advanced Magnetic Materials provides a state of

the art comprehensive overview of our current understanding of the fundamental properties of magnetically ordered materials and their use in a wide range of sophisticated applications The Handbook is published in five themed volumes as follows Volume 1 Fundamentals and Theory Volume 2 Micromagnetism Volume 3 Novel Techniques for Characterizing and Preparing Samples Volume 4 Novel Materials Volume 5 Spintronics and Magnetoelctronics

Handbook of Magnetic Material for Motor Drive Systems Keisuke Fujisaki,2025-09-05 This handbook which builds on the previously published book Magnetic Material for Motor Drive Systems focuses on how to use magnetic material for electrical motor drive systems especially electrical vehicles and power electronics The volume is aimed at researchers and engineers working towards the realization of more efficient and down sized motor drive systems by utilizing magnetic materials with complex properties based on the operation of motors and power electronics The magnetic materials and the motor drive system have mutual interactive characteristics due to electromagnetically coupling with the same current and voltage so it is extremely important to have both viewpoints In this handbook for that purpose the fundamental concepts of electrical engineering and magnetic science and engineering are described in detail At the same time in order to develop new materials from the viewpoint of motor drive systems and to utilize the magnetic material this handbookwidely discusses the multi scale analysis technology that traces back to the magnetic domain structure and first principles calculations the basics of current materials and new magnetic materials the fundamental magnetic measurement technology of magnetic material and the application of magnetic technology It is expected that the knowledge gained through this title will greatly contribute to the coming EV society

SSP 2004 K.K. Kadyrzhanov,V.S. Rusakov,2007-08-03 This volume contains papers presented at the 8th International Conference on Solid State Physics SSP 2004 Workshop M ssbauer Spectroscopy of Locally Heterogeneous Systems held in Almaty Kazakhstan 23 26 August 2004 It should be of interest to researchers and PhD students working or interested in recent results in the locally inhomogeneous system investigations by M ssbauer Spectroscopy and the new concepts of data evaluation of complex M ssbauer spectra

ICAME 2005 P.-E. Lippens,J.-C. Jumas,J.-M. Génin,2007-12-10 This book provides an up to date overview of the M ssbauer effect in physics chemistry electrochemistry catalysis biology medicine geology mineralogy archaeology and materials science Coverage details the most recent developments of the technique especially in the fields of nanoparticles thin films surfaces interfaces magnetism experimentation theory medical and industrial applications and Mars exploration

Crystallization Marcello Andreeta,2012-09-19 Crystallization is one of the most ancient and interdisciplinary topics of research known to mankind Crystals can be organic or inorganic and may be produced from melts liquid solutions vapors or even in solid state Notwithstanding its inherently high complexity the crystallization process is part of our everyday lives from ice making in our homes to the most state of the art chemical and electronic industry In this book our purpose was to present new insights to the reader as well as crucial and very useful information for researchers working in this field while simultaneously creating a

comprehensive text about crystallization processes which may serve as a starting point for people with different backgrounds

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