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(Eds.)

Half-metallic Alloys

Fundamentals and Applications



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Half Metallic Alloys Fundamentals And Applications

Lecture Notes In Physics

Rosina Ehmman



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Half-metallic Alloys Iosif Galanakis, 2005-09-20 Half metals are particular ferromagnetic materials which can be considered as hybrids between metals and semiconductors A particular feature of these materials is that electrons at the Fermi level show complete spin polarization making them prime targets for research into suitable devices for spin electronics This book is both an introduction and state of art survey of the latest advances in the understanding and applications of Heusler alloys and related compounds Half-metallic Materials And Their Properties Ching-yao Fong, John E Pask, Lin H Yang, 2013-03-22 This volume provides a detailed treatment of half metallic materials and their properties from both an experimental and theoretical point of view It discusses the methods used to understand and predict the properties of half metals and the gamut of other materials amenable to these techniques It also offers an expansive bibliography to facilitate further and deeper research This book provides the precise definitions of all key terminology used in the vast and varied literature This is the first comprehensive monograph on the subject and will serve as a starting point for graduate students and senior researchers who wish to enter the field This book will also be an invaluable reference to those already working in the area of half metallic materials a **Advances in Nanoscale Magnetism** Bekir Aktas, Faik Mikailov, 2008-09-08 The book aims to provide an overview of recent progress in the understanding of magnetic properties in nanoscale through recent results of various theoretical and experimental investigations The papers describe a wide range of physical aspects **What is What in the Nanoworld** Victor E. Borisenko, Stefano Ossicini, 2013-02-21 The third partly revised and enlarged edition of this introductory reference summarizes the terms and definitions most important phenomena and regulations occurring in the physics chemistry technology and application of nanostructures A representative collection of fundamental terms and definitions from quantum physics and chemistry special mathematics organic and inorganic chemistry solid state physics material science and technology accompanies recommended secondary sources for an extended study of any given subject Each of the more than 2 200 entries from a few sentences to a page in length interprets the term or definition in question and briefly presents the main features of the phenomena behind it Additional information in the form of notes First described in Recognition More details in supplements the entries and gives a historical perspective of the subject with reference to further sources Ideal for answering questions related to unknown terms and definitions among undergraduate and PhD students studying the physics of low dimensional structures nanoelectronics and nanotechnology **High-k Gate Dielectric Materials** Niladri Pratap Maity, Reshmi Maity, Srimanta Baishya, 2020-12-18 This volume explores and addresses the challenges of high k gate dielectric materials one of the major concerns in the evolving semiconductor industry and the International Technology Roadmap for Semiconductors ITRS The application of high k gate dielectric materials is a promising strategy that allows further miniaturization of microelectronic components This book presents a broad review of SiO₂ materials including a brief historical note of Moore's law followed by reliability issues of the SiO₂ based MOS transistor It

goes on to discuss the transition of gate dielectrics with an EOT 1 nm and a selection of high k materials A review of the various deposition techniques of different high k films is also discussed High k dielectrics theories quantum tunneling effects and interface engineering theory and applications of different novel MOSFET structures like tunneling FET are also covered in this book The volume also looks at the important issues in the future of CMOS technology and presents an analysis of interface charge densities with the high k material tantalum pentoxide The issue of CMOS VLSI technology with the high k gate dielectric materials is covered as is the advanced MOSFET structure with its working structure and modeling This timely volume will prove to be a valuable resource on both the fundamentals and the successful integration of high k dielectric materials in future IC technology

Ferromagnetic Shape Memory Alloys II Volodymyr A. Chernenko, Jose Manuel Barandiaran, 2009-12-03 Selected peer reviewed papers from the second International Conference on Ferromagnetic Shape Memory Alloys ICFSMA 2009 held at the University of Basque Country Bilbao Spain July 1 3 2009

Disorder and Strain-Induced Complexity in Functional Materials Tomoyuki Kakeshita, Takashi Fukuda, Avadh Saxena, Antoni Planes, 2011-10-27 This book brings together an emerging consensus on our understanding of the complex functional materials including ferroics perovskites multiferroics CMR and high temperature superconductors The common theme is the existence of many competing ground states and frustration as a collusion of spin charge orbital and lattice degrees of freedom in the presence of disorder and both dipolar and elastic long range forces An important consequence of the complex unit cell and the competing interactions is that the emergent materials properties are very sensitive to external fields thus rendering these materials with highly desirable technologically important applications enabled by cross response

Materials Transactions ,2008 **Handbook of Magnetism and Advanced Magnetic Materials: Fundamentals and theory** Helmut Kronmüller, Stuart S. P. Parkin, 2007 **Mechanical Engineering** American Society of Mechanical Engineers, 1947 **Scientific and Technical Aerospace Reports** ,1994 **Metallurgical Abstracts** Institute of Metals, 1964 Popular Mechanics ,1945-06 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle *Materials World* ,2001 *Annual Catalogue* Massachusetts Institute of Technology, 1939 **The Chartered Mechanical Engineer** ,1963

The Journal of the Iron and Steel Institute Iron and Steel Institute, 1965 Includes the institute s Proceedings

Scientific and Technical Books and Serials in Print ,1984 Technical Book Review Index ,1959 *Civil Engineering and Public Works Review* ,1961

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