

METALLIC MULTI- LAYERS AND EPITAXY

Edited by M. Hong, S. Wolf and D. C. Gubser

Metallic Multilayers And Epitaxy

S. Mahajan, L. C. Kimerling



Metallic Multilayers And Epitaxy:

Metallic Multi-layers and Epitaxy M. Hong, Donald Urban Gubser, Stuart A. Wolf, 1988 *Metallic Multilayers and Epitaxy* M. Hong, 1988 *Metallic Multilayers and their Applications* Gayanath Fernando, 2011-08-30 Thin Metallic multilayer films have become an important part in today's computer technology The giant magnetoresistance GMR effect which plays a central role here was discovered in the late 1980s This can be essentially described as the effect of a magnetic field on the electron transport leading to significant changes in the resistance Other aspects of multilayers systems such as stability growth confinement are also addressed Theoretical and experimental methods used in such work are described in some detail with special emphasis on density functional and spin density functional theories Magnetic anisotropy in thin films is also discussed while addressing unresolved issues and new results from exchange bias experiments Discusses the GMR effect What makes multilayers interesting and useful What are the latest discoveries in this field Simple insights in to the physics behind multilayers Novel concepts at small length scales Theoretical and experimental background **Metallic Multilayers** A. Chamberod, J. Hillairet, 1989 This book contains a series of lectures given in a Summer School held in Aussois France in September 1989 It offers a global perspective on the current state of the art in the rapidly emerging field of metallic multilayered structures *Molecular Beam Epitaxy* Marian A. Herman, Helmut Sitter, 2012-12-06 Molecular Beam Epitaxy describes a technique in wide spread use for the production of high quality semiconductor devices It discusses the most important aspects of the MBE apparatus the physics and chemistry of the crystallization of various materials and device structures and the characterization methods that relate the structural parameters of the grown or growing film or structure to the technologically relevant procedure In this second edition two new fields have been added crystallization of as grown low dimensional heterostructures mainly quantum wires and quantum dots and in growth control of the MBE crystallization process of strained layer structures Out of date material has been removed **Small Scale Structures** N.F. de Rooij, J.-M. Moret, H. Schmidt, K. Samwer, C.V. Thompson, W. Göpel, Alan Lindsay Greer, 2012-12-02 This book contains the proceedings of 3 symposia dealing with various aspects of small scale structures Symposium A deals with the development of new materials including ceramics polymers metals etc their microstructuring as well as their potential for application in microsystems All kinds of microsystems are considered e.g. mechanical magnetic optical chemical biochemical and issues related to assembly and packaging were also covered Symposium B deals with four topics synthesis and preparation of nanostructured ceramics and composites with well controlled geometric order and chemical composition coupling of these structures to transducers for current and future chemical and biochemical devices based upon microoptics microelectronics microionics microelectrodes or molecular cages planar thin film structures and the control of covalent thin film transducer couplings the control of selective stable and sensitive recognition centers at the surface at grain boundaries or in the bulk of selected nanostructured materials with extremely narrow particle size distributions analysis of these structures and sensor functions

by means of techniques utilizing photons electrons ions or atomic particle beam probes Symposium E examines the structure property relationships in thin films and multilayers from the point of view of both fundamental studies and practical applications **Transport and Structural Studies of Metallic Multilayer Films** Jeffrey Michael Florczak,1992

Magnetic Thin Films, Multilayers and Superlattices A. Fert,G. Güntherodt,B. Heinrich,E.E. Marinero,M.

Maurer,1991-06-06 Materials Research in thin and ultrathin magnetic structures is a multidisciplinary field which heavily relies on state of the art growth characterization and theoretical approaches to build a comprehensive physical picture on how magnetic properties depend on interfacial structural issues interlayer coupling and transport phenomena Often in this field the critical properties and characterization required necessitates knowledge of structural and magnetic phenomena extending over several atomic planes Atomic controlled growth techniques are required and atomic sensitivity is needed from magnetic and structural probes This critical knowledge is vital for device applications providing the basis for the synergistic interactions that are predominant in this field of research This volume is the definitive reference source for anyone interested in the latest advances and results of current experimental research in ultrathin film magnetism **Metal-Ceramic**

Interfaces M. Rühle,A.G. Evans,J.P. Hirth,Michael F. Ashby,2013-10-22 As engineering materials and structures often contain a metal or metallic alloy bonded to a ceramic the resultant interface must be able to sustain mechanical forces without failure They also play an important role in oxidation or reduction of materials The workshop on Bonding Structure and Mechanical Properties of Metal Ceramic Interfaces was held in January 1989 within the Acta Scripta Metallurgica conference series It drew together an international collection of 70 scientists who discussed a wide range of issues related to metal ceramic interfaces The sessions were divided into 7 categories structure and bonding chemistry at interfaces formation of interfaces structure of interfaces thermodynamics atomistics of interface fracture mechanics of interface cracks and fracture resistance of bimaterial interfaces Within these headings attention was paid to grain boundaries the influence of chemical processes on the behaviour of interfaces diffusion bonding characterization of fracture and crack propagation by fatigue and by stress corrosion The book presents a useful reference source for materials scientists physicists chemists and mechanical engineers who are concerned with the roles and properties of interfaces *Kinetics of Ordering and Growth at Surfaces* Max G. Lagally,2012-12-06 This volume contains the papers presented at the NATO Advanced Research Workshop on Kinetics of Ordering and Growth at Surfaces held in Acquafredda di Maratea Italy September 18 22 1989 The workshop s goal was to bring together theorists and experimentalists from two related fields surface science and thin film growth to highlight their common interests and overcome a lack of communication between these two communities Typically surface scientists are only concerned with the microscopic atomic description of solids within one monolayer of the surface Thin film growers are usually considered more empirical in their approach concerned primarily with the quality of their product and have not necessarily found it useful to incorporate surface science understanding into their art This workshop aimed to

counter at least in some measure these stereotypes Its focus was on generating dialogue on the fundamental structural and kinetic processes that lead to the initial stages of film growth from both the surface science and crystal growth perspectives To achieve this alternate days emphasized the view of surface science and thin film growth with considerable time for discussion a format that appeared to succeed well The success of the workshop is in large measure due to the efforts of the organizing committee L C Feldman P K Larsen J A Venables and J Villain whose advice on the constitution of the program was invaluable

Magnetic Properties of Metals: Magnetic and Electric Properties of Magnetic Metallic Multilayers Yoshiyuki Kawazoe, Ryunosuke Note, 2023-06-06 The subject of this volume is to present both the numerical and graphical data on the magnetic and electrical properties of magnetic metallic multilayers which are composed with stacking up of double layers of thin films one layer of which is at least the magnetic layer of 3d metals M or rare earth ones R Furthermore the data of the trilayers which have a top layer and bottom one of magnetic elements are also presented

Mechanisms and Principles of Epitaxial Growth in Metallic Systems: Volume 528 Luc T. Wille, 1998-08-06 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners

Epitaxial Growth of Complex Metal Oxides Gertjan Koster, Mark Huijben, Guus Rijnders, 2022-04-22 Epitaxial Growth of Complex Metal Oxides Second Edition reviews techniques and recent developments in the fabrication quality of complex metal oxides which are facilitating advances in electronic magnetic and optical applications Sections review the key techniques involved in the epitaxial growth of complex metal oxides and explore the effects of strain and stoichiometry on crystal structure and related properties in thin film oxides Finally the book concludes by discussing selected examples of important applications of complex metal oxide thin films including optoelectronics batteries spintronics and neuromorphic applications This new edition has been fully updated with brand new chapters on topics such as atomic layer deposition interfaces STEM EELs and the epitaxial growth of multiferroics ferroelectrics and nanocomposites Examines the techniques used in epitaxial thin film growth for complex oxides including atomic layer deposition sputtering techniques molecular beam epitaxy and chemical solution deposition techniques Reviews materials design strategies and materials property analysis methods including the impacts of defects strain interfaces and stoichiometry Describes key applications of epitaxially grown metal oxides including optoelectronics batteries spintronics and neuromorphic applications

Magnetic Ultra Thin Films, Multilayers and Surfaces F. Petroff, M.A.M. Gijs, 1997-12-18 The Symposium on Magnetic Ultrathin Films Multilayers and Surfaces hosted by the European Materials Research Society was held at the Palais de la Musique et des Congr in Strasbourg France on June 4 7 1996 Its central theme was the relationship of magnetic properties and device performance to structure at the nano and micrometer length scale Research on the magnetism of surfaces ultrathin films and multilayers has increased dramatically during recent years This development was triggered by the discovery of coupling between ferromagnetic layers across nonmagnetic spacer layers and of the giant magnetoresistance effect in systems of reduced dimension using various

micro and nanofabrication techniques has become a subject of special interest. It is certainly the promising application potential of these effects in new magnetic recording device geometries which causes this intensive research which is done both by companies and at universities and research institutes. A selection of invited and contributed papers presented at the Symposium and accepted for publication is contained in this volume. The contents of these proceedings are organized into seven sections: A Nanowires Nanoparticles Nanostructuring B Ultrathin Films and Surfaces Characterization C Giant Magnetoresistance D Coupling Tunneling E Growth Structure Magnetism F Growth Structure Magnetoresistance G Coupling Magnetic processes Magneto optics. The first four sections contain invited and oral contributed papers in the listed research domains while the last three sections contain the contributions presented during three large poster sessions.

Metallic Multilayers A. Chamberod, J. Hillairret, 1990-01-01 This book contains a series of lectures given in a Summer School held in Aussois France in September 1989. It offers a global perspective on the current state of the art in the rapidly emerging field of metallic multilayered structures.

Half-metallic Materials and Their Properties C. Y. Fong, J. E. Pask, L. H. Yang, 2013 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.

Concise Encyclopedia of Semiconducting Materials & Related Technologies S. Mahajan, L. C. Kimerling, 2013-10-22 The development of electronic materials and particularly advances in semiconductor technology have played a central role in the electronics revolution by allowing the production of increasingly cheap and powerful computing equipment and advanced telecommunications devices. This Concise Encyclopedia which incorporates relevant articles from the acclaimed Encyclopedia of Materials Science and Engineering as well as newly commissioned articles emphasizes the materials aspects of semiconductors and the technologies important in solid state electronics. Growth of bulk crystals and epitaxial layers are discussed in the volume and coverage is included of defects and their effects on device behavior. Metallization and passivation issues are also covered. Over 100 alphabetically arranged articles written by world experts in the field are each intended to serve as the first source of information on a particular aspect of electronic materials. The volume is extensively illustrated with photographs, diagrams and tables. A bibliography is provided at the end of each article to guide the reader to recent literature. A comprehensive system of cross references, a three level subject index and an alphabetical list of articles are included to aid readers in the abstraction of information.

Multiscale Modeling and Simulation of Composite Materials and Structures Young Kwon, David H. Allen, Ramesh R. Talreja, 2007-12-04 This

book presents the state of the art in multiscale modeling and simulation techniques for composite materials and structures. It focuses on the structural and functional properties of engineering composites and the sustainable high performance of components and structures. The multiscale techniques can be also applied to nanocomposites which are important application areas in nanotechnology. There are few books available on this topic.

Thin Film Growth Techniques for Low-Dimensional Structures R.F.C. Farrow, S.S.P. Parkin, P.J. Dobson, J.H. Neave, A.S. Arrott, 2013-03-09. This work represents the account of a NATO Advanced Research Workshop on Thin Film Growth Techniques for Low Dimensional Structures held at the University of Sussex Brighton England from 15-19 Sept 1986. The objective of the workshop was to review the problems of the growth and characterisation of thin semiconductor and metal layers. Recent advances in deposition techniques have made it possible to design new material which is based on ultra thin layers and this is now posing challenges for scientists, technologists and engineers in the assessment and utilisation of such new material. Molecular beam epitaxy (MBE) has become well established as a method for growing thin single crystal layers of semiconductors. Until recently MBE was confined to the growth of III-V compounds and alloys but now it is being used for group IV semiconductors and II-VI compounds. Examples of such work are given in this volume. MBE has one major advantage over other crystal growth techniques in that the structure of the growing layer can be continuously monitored using reflection high energy electron diffraction (RHEED). This technique has offered a rare bonus in that the time dependent intensity variations of RHEED can be used to determine growth rates and alloy composition rather precisely. Indeed a great deal of new information about the kinetics of crystal growth from the vapour phase is beginning to emerge.

Molecular Beam Epitaxy Mohamed Henini, 2018-06-27. Molecular Beam Epitaxy (MBE) From Research to Mass Production Second Edition provides a comprehensive overview of the latest MBE research and applications in epitaxial growth along with a detailed discussion and how to process molecular or atomic beams that occur on the surface of a heated crystalline substrate in a vacuum. The techniques addressed in the book can be deployed wherever precise thin film devices with enhanced and unique properties for computing, optics or photonics are required. It includes new semiconductor materials, new device structures that are commercially available and many that are at the advanced research stage. This second edition covers the advances made by MBE both in research and in the mass production of electronic and optoelectronic devices. Enhancements include new chapters on MBE growth of 2D materials, Si-Ge materials, AlN and GaN materials and hybrid ferromagnet and semiconductor structures. Condenses the fundamental science of MBE into a modern reference, speeding up literature review. Discusses new materials, novel applications and new device structures, grounding current commercial applications with modern understanding in industry and research. Includes coverage of MBE as mass production epitaxial technology and how it enhances processing efficiency and throughput for the semiconductor industry and nanostructured semiconductor materials research community.

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