

METALLIC MULTI- LAYERED PARTICLES AND EPITAXY

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

Metallic Multilayers And Epitaxy

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Metallic Multilayers And Epitaxy:

Metallic Multilayers and Epitaxy M. Hong,1988 *Metallic Multi-layers and Epitaxy* M. Hong,Donald Urban Gubser,Stuart A. Wolf,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 **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quantum wires and quantum dots and in growth control of the MBE crystallization process of strained layer structures Out of date material has been removed **Small Scale Structures** N.F. de Rooij,J.-M. Moret,H. Schmidt,K. Samwer,C.V. Thompson,W. Göpel,Alan Lindsay Greer,2012-12-02 This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 C examines the structure property relationships in thin films and multilayers from the point of view of both fundamental studies and practical applications **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 Metallic Multilayers A. Chamberod,J. Hillairet,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 **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 Congrès 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 Transport and Structural Studies of Metallic Multilayer Films Jeffrey Michael Florczak,1992 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 **Metals Abstracts** ,1996 *Condensed Matter Physics* Hari Prakash (of Physics Dept., Allahabad University.),1999 Contributed seminar papers *Growth, Evolution and Properties of Surfaces, Thin Films, and Self Organized Structure: Volume 648* Steven C. Moss,2001-09-20 A significant portion of these papers from a winter 2000 symposium examine materials and devices at the nano scale with work on self organized structures as well as nano patterned thin film structures Materials research in three two one and zero dimensional objects is addressed Other major themes include pattern formation on surfaces magnetism in films thin film nucleation and alloy formation and diffusion and morphological evolution of surfaces and thin films Quantum dots and quantum size effects metal silicon and germanium silicon epitaxy metal on semiconductor and semiconductor thin films and semiconductor epitaxy are also discussed Annotation copyrighted by Book News Inc Portland OR **Epitaxial Oxide Thin**

Films and Heterostructures ,1994 **Epitaxial Oxide Thin Films and Heterostructures: Volume 341** David K. Fork,1994-08-15 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners **Intergranular and Interphase Boundaries in Materials** ,1992 *Coastlines* ,1996-03 **Physics Briefs** ,1994 *Heteroepitaxy of Dissimilar Materials: Volume 221* Robin F. C. Farrow,1991-10-11 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners **Materials and Components** ,1996

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