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Molecular Electronics: Volume 582 Sokrates T. Pantelides, 2001-01-19 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners *Materials Research Society Symposium Proceedings Volume 582. Molecular Electronics. Symposium Held November 29-December 2, 1999, Boston, Massachusetts, U.S.A.*, 1999 This volume contains papers presented at Symposium H Molecular Electronics held November 29 December 2 at the 1999 MRS Fall Meeting in Boston Massachusetts As Si based microelectronics marches to ever smaller feature sizes the point is rapidly approaching when conventional MOSFETs will no longer operate Such devices depend on the concept of doped regions which can be envisioned to be ever so small until you get to the point where there is only a handful of dopant atoms Tunneling across ultra thin films is another major issue Single molecules as active device elements is a concept that goes back to the 1970 s but in recent years very substantial progress has been made in synthesizing molecules suitable for such purposes Carbon nanotubes have been a prime candidate for both nanowires and active devices Molecules as small as single benzene rings and larger more complex molecules have been synthesized and measured showing reproducible current voltage characteristics Unusual features are large negative differential resistance and large shifts of resonant peaks as functions of temperature *Nano-Physics and Bio-Electronics* T. Chakraborty, F. Peeters, U. Sivan, 2002-04-16 This book is a collection of some of the invited talks presented at the international meeting held at the Max Planck Institut fuer Physik Komplexer Systeme Dresden Germany during August 6-30 2001 on the rapidly developing field of nanoscale science in science and bio electronics Semiconductor physics has experienced unprecedented developments over the second half of the twentieth century The exponential growth in microelectronic processing power and the size of dynamic memories has been achieved by significant downscaling of the minimum feature size Smaller feature sizes result in increased functional density faster speed and lower costs In this process one is reaching the limits where quantum effects and fluctuations are beginning to play an important role This book reflects the achievements of the present times and future directions of research on nanoscopic dimensions *Infrared Applications of Semiconductors III* Mahmoud Omar Manasreh, 2000 **Electrical, Optical, and Magnetic Properties of Organic Solid-state Materials V** Susan Ermer, 2000 This volume the fifth in a popular series features papers related to the development and utilization of materials with novel electrical optical or magnetic properties The field has experienced tremendous growth in the past years and this volume provides a forum for materials scientists chemists physicists and engineers to assess the progress In particular light emitting materials for displays are showing great promise for widespread commercialization Developments in molecular engineering and self assembly as well as in conducting polymers are enabling better performance and greater scientific understanding of the phenomena underlying these advances Improvements in electro optic photorefractive and two photon absorbing materials are also being realized and are addressed here **Nanophase and Nanocomposite Materials III** Sridhar Komarneni, John

C. Parker, Horst Hahn, 2000 **Substrate Engineering--paving the Way to Epitaxy** David Norton, 2000 Epitaxial growth has always been a marriage of convenience between film and substrate More and more frequently however it is impractical to use the same material for both film and substrate because it is not available as large single crystals it is prohibitively expensive or its properties are ill suited for the intended application To meet these challenges many strategies have been pursued to achieve highly oriented or single crystal thin films via epitaxy Crystalline films have been mechanically bonded to other materials to form composite substrates Crystals have been cut and rewelded patterned and regrown buffer layered and repolished Each strategy has met with fundamental challenges including lattice mismatch chemical incompatibility differences in thermal expansion and structural dissimilarity This book first published in 2000 focuses on developments in novel substrate engineering which enable improved epitaxy Topics include biaxially textured substrates for high T_c coated conductors surfaces for oxide epitaxy wafer bonding and lift off lattice mismatch engineering substrate engineering and solid phase recrystallization and epitaxy **Nucleation and Growth Processes in Materials** Antonios Gonis, Patrice E. A. Turchi, Alan J. Ardell, 2000 One of the goals of materials science is to design alloys with pre specified desirable technological properties To achieve this goal it is necessary to have a thorough understanding of the fundamental mechanisms underlying materials behavior In particular one must understand the effects on alloy properties caused by intentional changes in concentration and how the combinations of temperature time and uncontrollable foreign impurities affect microstructure In addition to the equilibrium phase information contained in phase diagrams nonequilibrium dynamic processes and metastable phases are known to be crucial in determining materials properties This volume brings together researchers working on various aspects of nonequilibrium processes in materials to discuss current research issues and to provide guidelines for future work Particular attention was paid to understanding particle nucleation and growth both experimentally and theoretically solid state reactions nanosystems liquid solid transformations and solidification and amorphization On the theoretical side fundamental principles governing nucleation and growth and related phenomena such as coarsening and Ostwald ripening are discussed Progress is also reported on the phase field method and on Monte Carlo simulations

American Book Publishing Record ,2001 *Boekblad* ,2000-04 *Symposium NN: Molecular Electronics* M.-I. Baraton, E. L. Garfunkel, 2003 **Molecular Electronics** ,2002 **Molecular Electronics** Ashgate Publishing Company, 1986 *Gas-Phase and Surface Chemistry in Electronic Materials Processing. Materials Research Society Symposium Proceedings Held in Boston, Massachusetts on November 29-December 2, 1993* ,1994 The papers are organized in six sections Part I contains papers on silicon and carbon systems In addition to papers discussing silicon and silicon oxide deposition it includes several papers on diamond film growth The chemistry underlying the growth and doping of III V and II VI compound semiconductors is covered in Part II together with several studies discussing new precursors Part III contains papers on metallization The deposition of dielectric and transitional layers is the topic of Part IV Part V contains papers on

etching of thin films Finally Part VI covers special topics such as deposition on patterned substrates reactor design heteroepitaxy and selective epitaxy **10th Molecular Electronics and Devices Symposium (ME&D'99), KAIST, Korea, 8 - 9 May, 1999 and the Proceedings of the International Workshop on Quantum Transport in Synthetic Metals (QTSM-1) ,2001 Third European Conference on Molecular Electronics** European conference on molecular electronics 3th Leuven, september 1-6,1996,1996 **NSIA-ARDC Conference on Molecular Electronics, November 13-14, 1958, Washington ,1958 15th Molecular Electronics and Devices Symposium 2004** Joon Won Park,Pohang University of Science and Technology. BioNanotechnology Center,2006

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