

Chapter 1

From Magnetodynamics to Spin Dynamics in Magnetic Heterosystems

Claus M. Schneider

Abstract The dynamic behavior of magnetic systems covers a broad range of length and time scales and is of both fundamental interest and technological relevance. The particular challenge in magnetic heterosystems is the need to disentangle the responses of the individual magnetic and chemical components. In this contribution we discuss the results of two complementary experimental approaches addressing element-selective magnetization and spin dynamics. Time-resolved X-ray photoemission electron microscopy (TR-XPEEM) is employed to image the temporal evolution of the magnetization in interlayer exchange-coupled trilayers in the picosecond regime with high lateral resolution. In order to address the femtosecond time scale with element selectivity, we developed a novel pump-probe magneto-optical Kerr effect (MOKE) technique involving higher harmonic generation (HHG) in the extreme ultraviolet regime. We are able to map the spin dynamics of the individual constituents in Permalloy ($\text{Ni}_{80}\text{Fe}_{20}$) with a time resolution of better than 100 fs. Combining PEEM with HHG excitation may pave the way to an element-selective magnetic imaging technique in the lab offering femtosecond time resolution.

1.1 Introduction

The dynamic behavior of magnetic systems involves a wide variety of physical phenomena and covers a broad range of time scales of more than 23 orders of magnitude. Moreover, this enormous dynamic range is also of high technological relevance. The long-term end of the time axis is marked by the data storage retention time defined by the magnetic storage industry. It relates to the thermal stability of a written bit of information for a period of at least 10 years. Another technologically important regime is located between 10^{-9} and 10^{-12} s and governs fast magnetic

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B. Aktag, F. Mikailzada (eds.), *Nanostructured Materials for Magnetoelectronics*,
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Magnetoelectronics And Magnetic Materials novel Phenomena And Advanced Characterization Proceedings

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Magnetoelectronics And Magnetic Materials novel Phenomena And Advanced Characterization Proceedings:

Magnetoelectronics and Magnetic Materials - Novel Phenomena and Advanced Characterization: Volume 746 Shufeng Zhang, 2003-04 This book combines the proceedings of Symposium Q Magnetoelectronics Novel Magnetic Phenomena in Nanostructures and Symposium R Advanced Characterization of Artificially Structured Magnetic Materials both from the 2002 MRS Fall Meeting in Boston The common focus is on artificially engineered nanostructured magnetic systems The two symposia address new phenomena in magnetoelectronic applications their preparation and advanced methodology for characterization Interest in nanomagnetism has been catalyzed by advances in two fields of research 1 Advances in materials synthesis of structures whose length scales transcend magnetic length scales and open the possibility for creating materials with new magnetic properties Such structures include interfaces superlattices tunneling devices nanostructures and single molecule magnets 2 Advances in sample characterization techniques for nano magnetism which allow detailed exploration of structure property relationships in nanostructured magnetic systems The volume highlights current trends in both fields and offers an outlook for further advances and new capabilities

Handbook of Less-Common Nanostructures Boris I. Kharisov, Oxana Vasilievna Kharissova, Ubaldo Ortiz-Mendez, 2012-03-19 As nanotechnology has developed over the last two decades some nanostructures such as nanotubes nanowires and nanoparticles have become very popular However recent research has led to the discovery of other less common nanoforms which often serve as building blocks for more complex structures In an effort to organize the field the Handbook of Less Common Nanostructures presents an informal classification based mainly on the less common nanostructures A small nanotechnological encyclopedia this book Describes a range of little known nanostructures Offers a unifying vision of the synthesis of nanostructures and the generalization of rare nanoforms Includes downloadable resources with color versions of more than 100 nanostructures Explores the fabrication of rare nanostructures including modern physical chemical and biological synthesis techniques The Handbook of Less Common Nanostructures discusses a classification system not directly related to the dimensionality and chemical composition of nanostructure forming compounds or composite Instead it is based mainly on the less common nanostructures Possessing unusual shapes and high surface areas these structures are potentially very useful for catalytic medical electronic and many other applications

Spatially Resolved Characterization of Local Phenomena in Materials and Nanostructures:

Volume 738 Javier Piqueras, 2003-03-27 A primary driver of progress in nanoscience and technology is the continuing advances in the ability to measure structure and particularly properties at spatially localized scales From the point of view of characterization it is worth mentioning advances in the interpretation of processes in semiconductors the ability to observe and manipulate metal carbon and silicon nanowires and nanodots and studies in molecular self assembly The papers in this book fall into two categories those addressing classes of characterization techniques that emphasize how the combination of theoretical experimental and instrumental developments lead to new capabilities in nanoscale characterization and

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internationally recognised reference suitable for researchers and practitioners This 2003 volume focuses on experimentally validated multiscale modeling of ductile metals and alloys **Novel Materials and Processes for Advanced CMOS:**

Volume 745 Mark I. Gardner, Materials Research Society, 2003-03-25 Progress in MOS integrated circuit technology is largely driven by the ability to dimensionally scale the constituent components of individual devices and their associated interconnections Given a set of materials with fixed properties this scaling is finite and its predicted limits are rapidly approaching The International Technology Roadmap for Semiconductors establishes the pace at which this scaling occurs and identifies many of the technological challenges ahead This volume assembles representatives from the fields of materials science physics electrical and chemical engineering to provide an insightful review of current technology and understanding Specifically the intent is to discuss materials issues stemming from device scaling to sub 100nm technology nodes Topics include high k characterization atomic layer deposition gate metal materials and integration contacts and ultrashallow junction formation theory and modeling and crystalline oxides for gate dielectrics Materials, Technology and Reliability for Advanced Interconnects and Low-k Dielectrics, 2003 Materials Research Society. Meeting, 2003 *Materials, Technology, and Reliability for Advanced Interconnects and Low-k Dielectrics, 2003* Advanced Optical Processing of Materials Materials Research Society. Meeting, 2003 Since the inauguration of the MRS symposium series on advanced optical processing of materials back in 1990 the number of optical based techniques applied to process materials and the capabilities of optical systems has continued to expand and improve beyond simple pulsed laser deposition of thin films In turn the scope of materials being investigated has also increased from oxide ceramics to include alloys polymers and bio materials Many of the most exciting areas presented in this interdisciplinary forum include current and future applications in engineering materials at the mesoscopic to nanometer scale optoelectronics biomaterials sensors and electronics Advanced optical processing of materials now includes laser interactions with materials that are specially designed to optimize the beneficial qualities of laser modification However femtosecond processing of materials emerged as the dominant theme this year and several papers on this topic are featured Another hot topic is one connected with biomedical applications the controlled delivery of drugs to increase their efficacy by coating a fluidized bed of drug powders with biodegradable polymers was realized by conventional pulsed laser deposition PLD and matrix assisted pulsed laser evaporation MAPLE or by microencapsulation **CMOS Front-End Materials and Process Technology: Volume 765** Materials Research

Society. Meeting, 2003-09-12 In the future because fundamental materials and process limits are being approached continued transistor scaling will not be as straightforward Future complementary metal oxide semiconductor MOS transistors will require high permittivity high k gate dielectrics and metal gate electrodes as well as low resistance ultrashallow junctions in order to meet the stringent specifications of the International Technology Roadmap for Semiconductors Techniques to improve transconductance and drive current may also be required Process integration issues must be solved and reliability must be assured before any new material or processing technique can be used in IC manufacture A further complication is that the key challenges will differ according to application This book reports research results from industry government labs and academia covering a wide scope of front end process issues for future CMOS technologies Topics include advanced materials and structures high k dielectrics advanced gate stack materials heterogeneous integration and strained Si technologies ultrashallow junction technology strained Si and source drain technology and laser annealing and silicide processes

Mechanical Properties Derived from Nanostructuring Materials David F. Bahr, 2003

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web i greet you in the name of our lord jesus on behalf of the church and the department of youth i want to take this opportunity to thank our god for allowing us to see this day it is a day as a department we have been praying for and all the youths of this church are happy that we are here to fellowship together

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today i think just seeing all of you make me buzz with energy

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