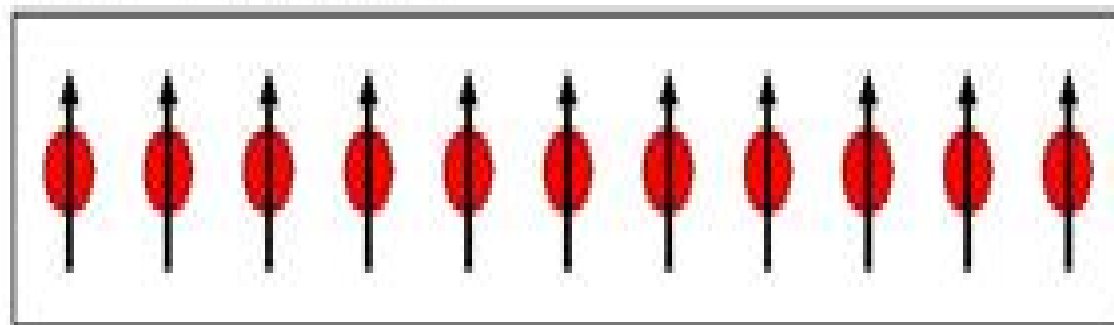
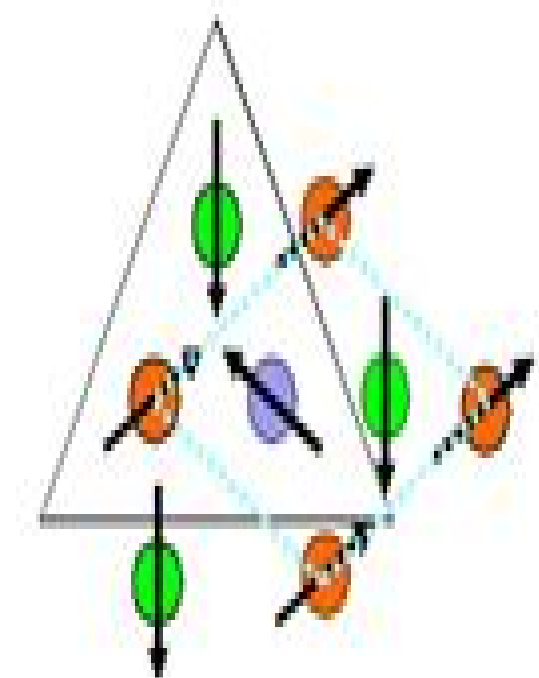
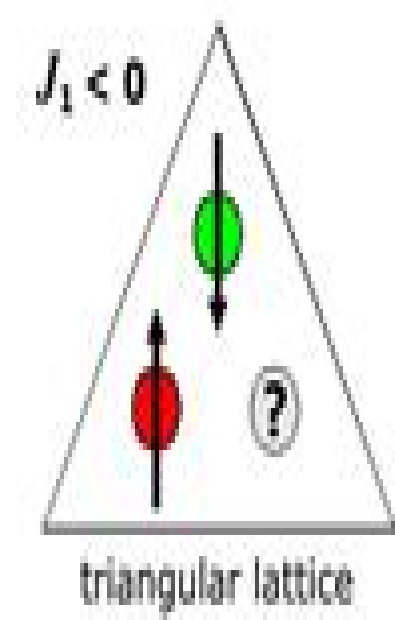
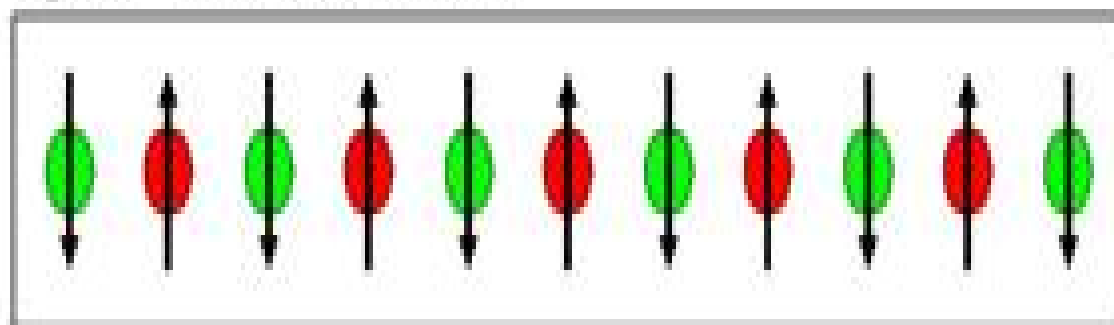


Heisenberg exchange  $E_H = -\sum_{i,j} J_{ij} \mathbf{S}_i \cdot \mathbf{S}_j$

$J_1 > 0$  ferromagnetic



$J_1 < 0$  antiferromagnetic



# Magnetic Interactions And Spin Transport

**Almadena Chtchelkanova, Stuart A.  
Wolf, Yves Idzerda**



## **Magnetic Interactions And Spin Transport:**

*Magnetic Interactions and Spin Transport* Almadena Chtchelkanova, Stuart A. Wolf, Yves Idzerda, 2013-11-11 Stuart Wolf  
This book originated as a series of lectures that were given as part of a Summer School on Spintronics in the end of August 1998 at Lake Tahoe Nevada. It has taken some time to get these lectures in a form suitable for this book and so the process has been an iterative one to provide current information on the topics that are covered. There are some topics that have developed in the intervening years and we have tried to at least alert the readers to them in the Introduction where a rather complete set of references is provided to the current state of the art. The field of magnetism once thought to be dead or dying has seen a remarkable rebirth in the last decade and promises to get even more important as we enter the new millennium. This rebirth is due to some very new insight into how the spin degree of freedom of both electrons and nucleons can play a role in a new type of electronics that utilizes the spin in addition to or in place of the charge. For this new field to mature and prosper it is important that students and postdoctoral fellows have access to the appropriate literature that can give them a sound basis in the fundamentals of this new field and I hope that this book is a very good start in this direction.

Handbook of Spin Transport and Magnetism Evgeny Y. Tsymbal, Igor Zutic, 2016-04-19 In the past several decades the research on spin transport and magnetism has led to remarkable scientific and technological breakthroughs including Albert Fert and Peter Grunberg's Nobel Prize winning discovery of giant magnetoresistance GMR in magnetic metallic multilayers. **Handbook of Spin Transport and Magnetism** provides a comprehensive balance of fundamental and applied aspects of spintronics. **Spintronics Handbook, Second Edition:**

**Spin Transport and Magnetism** Evgeny Y. Tsymbal, Igor Žutić, 2019-05-20 The second edition offers an update on the single most comprehensive survey of the two intertwined fields of spintronics and magnetism covering the diverse array of materials and structures including silicon, organic semiconductors, carbon nanotubes, graphene and engineered nanostructures. It focuses on seminal pioneering work together with the latest in cutting edge advances, notably extended discussion of two dimensional materials beyond graphene, topological insulators, skyrmions and molecular spintronics. The main sections cover physical phenomena, spin dependent tunneling, control of spin and magnetism in semiconductors and spin based applications. **Exchange Bias** Surender Kumar Sharma, 2017-09-22 This timely book covers basic mechanisms, characterization, theoretical simulations and applications for exchange bias in granular nanosystems, thin films and bulk systems. After an overview of the field and key principles, the next section covers nanogranular core-shell systems followed by chapters on thin films, bilayers, multilayers, nanostructures, dilute magnetic semiconductors and multiferroic systems. A final section turns to bulk systems such as those consisting of perovskite structures, rare earth transition metal intermetallics and ion implantations. Readers of this book will obtain a complete modern overview on exchange bias phenomena covering synthesis, characterization techniques and applications. An introduction to all the important phenomenological models proposed for thin films, bulk materials and nanoparticles. Detailed discussion of the importance of size, shape, cooling field and

temperature on exchange bias properties Understanding of novel applications of exchange bias systems      **Transport of Information-Carriers in Semiconductors and Nanodevices** El-Saba, Muhammad, 2017-03-31 Rapid developments in technology have led to enhanced electronic systems and applications When utilized correctly these can have significant impacts on communication and computer systems Transport of Information Carriers in Semiconductors and Nanodevices is an innovative source of academic material on transport modelling in semiconductor material and nanoscale devices Including a range of perspectives on relevant topics such as charge carriers semiclassical transport theory and organic semiconductors this is an ideal publication for engineers researchers academics professionals and practitioners interested in emerging developments on transport equations that govern information carriers      Future Solar Energy Devices Mihaela Girtan, 2017-09-18 This book addresses electronics and the rise of photonics and asks what the future holds in store for this technology It highlights the latest research on all types of solar cells and photonic devices and a new approach combining photonics and electronics Beyond simply explaining the existing systems or providing a synthesis of the current state of knowledge the book also offers readers new perspectives for their own research Lastly drawing on the interconnections between electronics and photonics the book suggests a possible means of using solar energy directly with the aid of future photonic devices      *Issues in Applied Physics: 2011 Edition* , 2012-01-09 Issues in Applied Physics 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Applied Physics The editors have built Issues in Applied Physics 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Applied Physics in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Applied Physics 2011 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>      Nano-Semiconductors Krzysztof Iniewski, 2018-09-03 With contributions from top international experts from both industry and academia Nano Semiconductors Devices and Technology is a must read for anyone with a serious interest in future nanofabrication technologies Taking into account the semiconductor industry s transition from standard CMOS silicon to novel device structures including carbon nanotubes CNT graphene quantum dots and III V materials this book addresses the state of the art in nano devices for electronics It provides an all encompassing one stop resource on the materials and device structures involved in the evolution from micro to nanoelectronics The book is divided into three parts that address Semiconductor materials i e carbon nanotubes memristors and spin organic devices Silicon devices and technology i e BiCMOS SOI various 3D integration and RAM technologies and solar cells Compound semiconductor devices and technology This reference explores the groundbreaking opportunities in emerging materials that

will take system performance beyond the capabilities of traditional CMOS based microelectronics Contributors cover topics ranging from electrical propagation on CNT to GaN HEMTs technology and applications Approaching the trillion dollar nanotech industry from the perspective of real market needs and the repercussions of technological barriers this resource provides vital information about elemental device architecture alternatives that will lead to massive strides in future development

**Functional Supramolecular Nanoassemblies of  $\Pi$ -Conjugated Molecules** Penglei Chen,Bin Wu,2020-01-13 conjugated systems of delocalized aromatic electrons along their backbones including conjugated small molecules oligomers polymers and carbonaceous materials etc have received considerable attention from a wide variety of scientific and technical communities Compared to inorganic materials the advantages of those based on tectons lie in their broad diversity flexibility and tunability with regard to structure geometry morphology processability composition functionality electronic band structure etc In terms of sophisticated molecular engineering these features endow them not only with excellent self assembly properties but also with unique optical electrical mechanical photophysical photochemical and biochemical attributes This renders them promising scaffolds for advanced functional materials AFMs in numerous areas of general interest such as electronics optics optoelectronics photovoltaics magnetic and piezoelectric devices sensors catalysts biomedicines and others With regard to the design synthesis of novel tectons the launch of diverse assembly fabrication protocols theoretical calculations etc the past several decades have witnessed tremendous advancements along this direction Thus far a vast array of high performance tectons based AFMs have been initiated To some extent the cooperative principle of stacking and other noncovalent interactions has been revealed and the structure property relationships have been disclosed Despite the existing progress this field still faces challenges for example i the need for scalable assembly manufacture under ambient conditions with low cost facile environmentally friendly protocols ii clearer correlations bridging the underlying intricate relationships of each successive step in assembly manufacture iii corresponding theoretical calculations for guiding the rational design of tectons that elucidate the cooperative principle of stacking and other noncovalent interactions as well as the principle of structure performance correlation iv stability and durability among the most important concerns regarding their commercialization The advancements accumulated during the past decades have established a solid foundation for the further development of conjugated systems based AFMs We believe that with unrelenting efforts from both scientific and technical communities of various backgrounds their practical applications will eventually be fulfilled This Research Topic aims to address the above mentioned challenges

Materials Science for Future Applications Abhijeet R. Kadam,Kranti Zakde,Sanjay J. Dhoble,Hendrik C. Swart,2025-06-20 Materials Science for Future Applications Emerging Development and Future Perspectives offers an overview of the materials used for progressive energy systems such as solar cells luminescent energy sensors and detectors and energy storage devices Today s worldwide energy and materials production is going through important changes which are developing novel prospects These

developments and innovative technologies are changing the way energy is manufactured transported and spent The materials emphasis in this book conveys a new perspective and highlights the many challenges that are often overlooked in other literature An understanding of these challenges can be critical when working with new energy material technologies Particular devotion is given to the key materials and their conversion productivity extensive duration of permanency materials expenses and energy materials sustainability Materials Science for Future Applications offers a comprehensive introduction for students and researchers in both academia and industry who are interested in understanding the properties of emerging materials and their challenges *Innovative Graphene Technologies* Atul Tiwari,2013-03-20 Graphene as a nanomaterial has a unique place among existing high performance materials Being a member of the carbon family the expectation from this material is high Several thousand research papers have already explored the possible applications of graphene however its commercial application has yet to be realised Such a large volume of research publications have appeared on graphene that the basic important information is hard to excavate In order to collect vital information on graphene this book is compiled in two volumes Volume 1 is specifically meant for beginners who want to understand the science and technology associated with the nanomaterial The first objective of this book is to furnish detailed information on the manufacturing or syntheses of graphene and related materials in the lab without the need for special equipment The chapters are written systematically so that it is easy to understand the science engineering and technology behind the material The second objective is to deliver information on the different techniques used to characterise graphene and related materials The content of the book is carefully designed so that readers can easily understand the new technologies being used to investigate graphene The book is written for a large readership including scholars and researchers from diverse backgrounds such as chemistry physics materials science and engineering It can be used as a textbook for both undergraduate and graduate students and also as a review or reference book by researchers in the fields of materials science engineering and nanotechnology **Progress in Industrial Mathematics at ECMI 2006** Luis L. Bonilla,Miguel

Moscoso,Gloria Platero,Jose M. Vega,2007-12-24 Proceedings from the 14th European Conference for Mathematics in Industry held in Madrid present innovative numerical and mathematical techniques Topics include the latest applications in aerospace information and communications materials energy and environment imaging biology and biotechnology life sciences and finance In addition the conference also delved into education in industrial mathematics and web learning

Magnetism in Carbon Nanostructures Frank Hagelberg,2017-07-13 Magnetism in carbon nanostructures is a rapidly expanding field of current materials science Its progress is driven by the wide range of applications for magnetic carbon nanosystems including transmission elements in spintronics building blocks of cutting edge nanobiotechnology and qubits in quantum computing These systems also provide novel paradigms for basic phenomena of quantum physics and are thus of great interest for fundamental research This comprehensive survey emphasizes both the fundamental nature of the field and

its groundbreaking nanotechnological applications providing a one stop reference for both the principles and the practice of this emerging area With equal relevance to physics chemistry engineering and materials science senior undergraduate and graduate students in any of these subjects as well as all those interested in novel nanomaterials will gain an in depth understanding of the field from this concise and self contained volume

**Nanocarbons** Ashwini P. Alegaonkar, Prashant S. Alegaonkar, 2023-02-13 This book provides a practical platform to the readers for facile preparation of various forms of carbon in its nano format investigates their structure property relationship and finally realizes them for a variety of applications taking the route of application engineering It covers the preparation and evaluation of nanocarbons variety of carbon nanotubes graphene graphite additively manufactured 3D carbon fibres their properties and various factors associated with them A summary and outlook of the nanocarbon field is included in the appendices Features Presents comprehensive information on nanocarbon synthesis and properties and some specific applications Covers the growth of carbon nanoparticles nanotubes ribbons graphene graphene derivatives porous spongy phases graphite and 3D carbon fabrics Documents a large variety of characterizations and evaluations on the nature of growth causing effect on structure properties Contains dedicated chapters on miniaturized flat and 2D devices Discusses a variety of applications from military to public domains including prevalent topics related to carbon This book is aimed at researchers and graduate students in materials science and materials engineering and physics

**Emerging Two Dimensional Materials and Applications** Arun Kumar Singh, Ram Sevak Singh, Anar Singh, 2022-11-21 This book details 2D nanomaterials and their important applications including recent developments and related scalable technologies crucial to addressing strong societal demands of energy environmental protection and worldwide health concerns are systematically documented It covers syntheses and structures of various 2D materials electrical transport in graphene and different properties in detail Applications in important areas of energy harvesting energy storage environmental monitoring and biosensing and health care are elaborated Features Facilitates good understanding of concepts of emerging 2D materials and its applications Covers details of highly sensitive sensors using 2D materials for environmental monitoring Outlines the role of 2D materials in improvement of energy harvesting and storage Details application in biosensing and health care for the realization of next generation biotechnologies for personalized health monitoring and so forth Provides exclusive coverage of inorganic 2D MXenes compounds This book is aimed at graduate students and researchers in materials science and engineering nanoscience and nanotechnology and electrical engineering

**Wide Energy Bandgap Electronic Devices** Fan Ren, John C Zolper, Hadis Morkoc, 2003-07-14 This book provides a summary of the current state of the art in SiC and GaN and identify future areas of development The remarkable improvements in material quality and device performance in the last few years show the promise of these technologies for areas that Si cannot operate because of its smaller bandgap We feel that this collection of chapters provides an excellent introduction to the field and is an outstanding reference for those performing research on

wide bandgap semiconductors In this book we bring together numerous experts in the field to review progress in SiC and GaN electronic devices and novel detectors Professor Morkoc reviews the growth and characterization of nitrides followed by chapters from Professor Shur Professor Karmalkar and Professor Gaska on High Electron Mobility Transistors Professor Pearton and co workers on ultra high breakdown voltage GaN based rectifiers and the group of Professor Abernathy on emerging MOS devices in the nitride system Dr Baca from Sandia National Laboratories and Dr Chang from Agilent review the use of mixed group V nitrides as the base layer in novel Heterojunction Bipolar Transistors There are 3 chapters on SiC including Professor Skowronski on growth and characterization Professor Chow on power Schottky and pin rectifiers and Professor Cooper on power MOSFETs Professor Dupuis and Professor Campbell give an overview of short wavelength nitride based detectors Finally Jihyun Kim and co workers describe recent progress in wide bandgap semiconductor spintronics where one can obtain room temperature ferromagnetism and exploit the spin of the electron in addition to its charge

**Handbook of Nanophysics** Klaus D. Sattler, 2010-09-17 Providing the framework for breakthroughs in nanotechnology this landmark publication is the first comprehensive reference to cover both fundamental and applied physics at the nanoscale After discussing the theoretical principles and measurements of nanoscale systems the organization of the set follows the historical development of nanoscience Each peer reviewed chapter presents a didactic treatment of the physics underlying the nanoscale materials applications and detailed experimental results State of the art scientific content is enriched with fundamental equations and illustrations many in color

**Nonregular Nanosystems** Yuri Shunin, Stefano Bellucci, Alytis Gruodis, Tamara Lobanova-Shunina, 2017-11-27 This book presents a systemic view of nanophenomena in terms of disordered condensed media with characteristics arising at various hierarchical levels from nanoagents nanoparticles through multiple technological interfaces to the creation of micro or mesostructures with essential nanodimensional effects These properties can be seen in various schemes for the functionalization of nanocarbon systems namely CNTs GNRs GNFs carbon based nanoaerogels nanofoams and so on where nonregularities characterize surface nanointeractions and various nanointerconnects resulting in both predictable and unpredictable effects Beginning with nanosensing and finishing with other forms of functionalized nanomaterials these effects will define the prospective qualities of future consumer nanoproducts and nanodevices This book covers all aspects of nonregular nanosystems arising from the fundamental properties of disordered nanosized media from electronic structure surface nanophysics and allotropic forms of carbon such as graphene and fullerenes including defect characterization to spintronics and 3D device principles Nonregular Nanosystems will be of interest to students and specialists in various fields of nanotechnology and nanoscience experts on surface nanophysics and nanochemistry as well as managers dealing with marketing of nanoproducts and consumer behavior research

*Comprehensive Nanoscience and Technology*, 2010-10-29 From the Introduction Nanotechnology and its underpinning sciences are progressing with unprecedented rapidity With technical advances in a variety of nanoscale



fabrication and manipulation technologies the whole topical area is maturing into a vibrant field that is generating new scientific research and a burgeoning range of commercial applications with an annual market already at the trillion dollar threshold The means of fabricating and controlling matter on the nanoscale afford striking and unprecedented opportunities to exploit a variety of exotic phenomena such as quantum nanophotonic and nanoelectromechanical effects Moreover researchers are elucidating new perspectives on the electronic and optical properties of matter because of the way that nanoscale materials bridge the disparate theories describing molecules and bulk matter Surface phenomena also gain a greatly increased significance even the well known link between chemical reactivity and surface to volume ratio becomes a major determinant of physical properties when it operates over nanoscale dimensions Against this background this comprehensive work is designed to address the need for a dynamic authoritative and readily accessible source of information capturing the full breadth of the subject Its six volumes covering a broad spectrum of disciplines including material sciences chemistry physics and life sciences have been written and edited by an outstanding team of international experts Addressing an extensive cross disciplinary audience each chapter aims to cover key developments in a scholarly readable and critical style providing an indispensable first point of entry to the literature for scientists and technologists from interdisciplinary fields The work focuses on the major classes of nanomaterials in terms of their synthesis structure and applications reviewing nanomaterials and their respective technologies in well structured and comprehensive articles with extensive cross references It has been a constant surprise and delight to have found amongst the rapidly escalating number who work in nanoscience and technology so many highly esteemed authors willing to contribute Sharing our anticipation of a major addition to the literature they have also captured the excitement of the field itself in each carefully crafted chapter Along with our painstaking and meticulous volume editors full credit for the success of this enterprise must go to these individuals together with our thanks for largely adhering to the given deadlines Lastly we record our sincere thanks and appreciation for the skills and professionalism of the numerous Elsevier staff who have been involved in this project notably Fiona Geraghty Megan Palmer and Greg Harris and especially Donna De Weerd Wilson who has steered it through from its inception We have greatly enjoyed working with them all as we have with each other

**Magnetism and Spintronics in Carbon and Carbon Nanostructured Materials** Sekhar Chandra Ray, 2020-01-15 Magnetism and Spintronics in Carbon and Carbon Nanostructured Materials offers coverage of electronic structure magnetic properties and their spin injection and the transport properties of DLC graphene graphene oxide carbon nanotubes fullerenes and their different composite materials This book is a valuable resource for those doing research or working with carbon and carbon related nanostructured materials for electronic and magnetic devices Carbon based nanomaterials are promising for spintronic applications because their weak spin orbit SO coupling and hyperfine interaction in carbon atoms entail exceptionally long spin diffusion lengths 100 m in carbon nanotubes and graphene The exceptional electronic and transport features of carbon nanomaterials could be

exploited to build multifunctional spintronic devices However a large spin diffusion length comes at the price of small SO coupling which limits the possibility of manipulating electrons via an external applied field Assesses the relative utility of a variety of carbon based nanomaterials for spintronics applications Analyzes the specific properties that make carbon and carbon nanostructured materials optimal for spintronics and magnetic applications Discusses the major challenges to using carbon nanostructured materials as magnetic agents on a mass scale

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