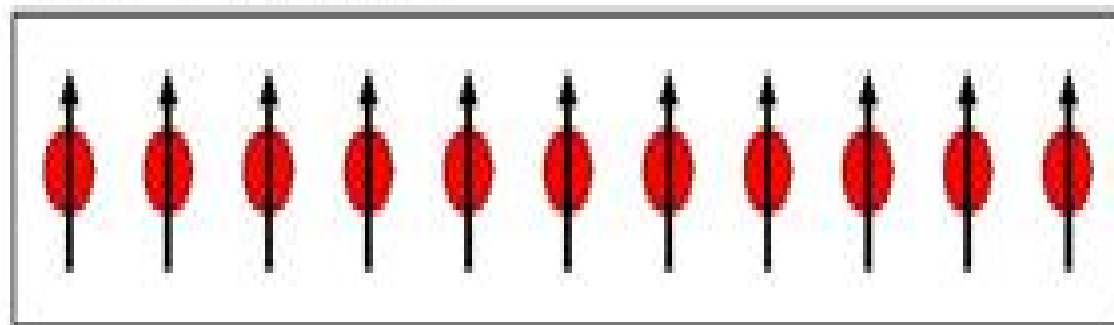
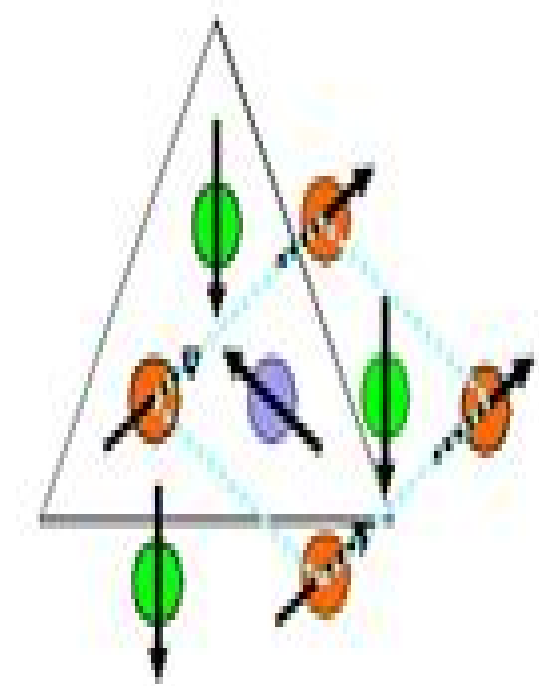
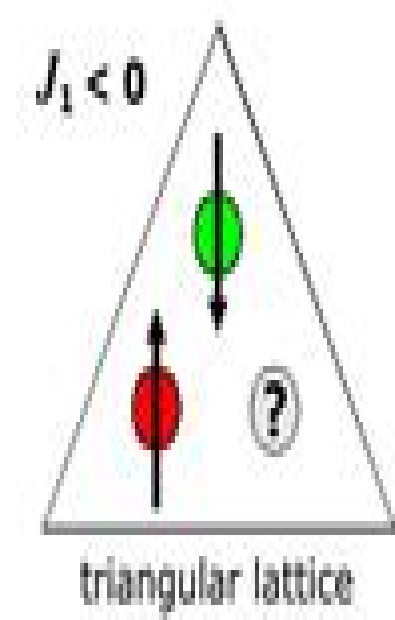
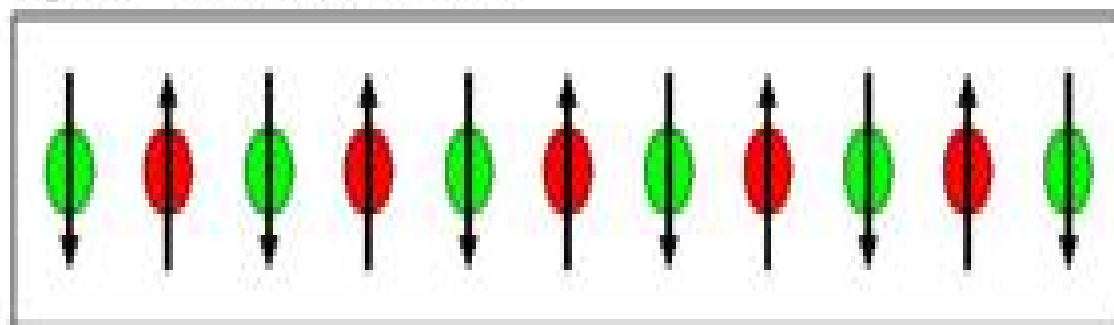


Heisenberg exchange $E_H = -\sum_{i,j} J_{ij} \mathbf{S}_i \cdot \mathbf{S}_j$

$J_1 > 0$ ferromagnetic



$J_1 < 0$ antiferromagnetic



Magnetic Interactions And Spin Transport

Supriyo Bandyopadhyay, Marc Cahay



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. **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. **Magnetic Interactions in Molecules and Solids** Anshul Pandey, 2025-02-20 *Magnetic Interactions in Molecules and Solids* provides an in depth journey into the captivating world of magnetism perfect for both seasoned researchers and those keen to explore the fundamentals. Written by leading experts we illuminate the intricate magnetic forces at play within molecules and solid materials combining foundational theories with advanced insights to appeal to readers of varying expertise. We start with core magnetism principles spin magnetic moment and magnetic fields preparing readers to delve into complex molecular magnetic interactions. Through clear explanations and examples we explore paramagnetism diamagnetism and ferromagnetism providing a comprehensive understanding of molecular magnetism. As the focus shifts to solid state magnetism we examine interactions within crystal structures covering topics like magnetic ordering

domains and the influence of crystal symmetry Bridging physics chemistry and materials science our interdisciplinary approach offers a unified view of magnetic phenomena Highlighting practical applications from magnetic data storage to MRI technology we connect theory with real world innovations Magnetic Interactions in Molecules and Solids is an essential resource for understanding magnetic interactions offering clarity and depth to students professionals and researchers alike

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 intermetallic 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 **Introduction to Spintronics**

Supriyo Bandyopadhyay,Marc Cahay,2015-09-18 Introduction to Spintronics provides an accessible organized and progressive presentation of the quantum mechanical concept of spin and the technology of using it to store process and communicate information Fully updated and expanded to 18 chapters featuring many new drill problems this edition reflects the explosion of study in spin related physics addressing seven important physical phenomena with spintronic device applications It discusses spintronics without magnetism which allows one to manipulate spin currents by purely electrical means It explores lateral spin orbit interaction and its many nuances as well as the possibility to implement spin polarizers and analyzers using quantum point contacts It also introduces the concept of single domain nanomagnet based computing

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 *Porphyrin-Based Composites* Umar Ali Dar,Mohd. Shahnawaz,Puja

Gupta,2025-04-28 Discover the transformative potential of porphyrin based composites in Porphyrin Based Composites where readers will learn how these innovative materials enhance industrial sectors by combining multiple porphyrin components to create durable sensitive and efficient technologies that outperform traditional materials This book highlights the benefits of adopting porphyrin composites and discusses how they are used in different industrial sectors Combining

multiple porphyrin components is used to create materials with properties that are not possible with individual components remove restrictions of water insolubility and ultimately lead to the development of durable and more sensitive technological materials Composite materials have been essential to human life for thousands of years beginning with the construction of houses by the first civilizations and advancing to modern technologies Originating in the mid twentieth century composite materials show promise as a class of engineering materials that offer new opportunities for contemporary technology and have been beneficially incorporated into practically every sector due to their ability to choose elements tune them to achieve the desired qualities and efficiently use those features through design Additionally composite materials offer greater strength and modulus to weight ratios than standard engineering materials Materials based on porphyrin composites are used in a wide range of applications including sensors molecular probes electrical gadgets electronic devices construction materials catalysis medicine and environmental and energy applications Readers will find the book Provides an overview of several porphyrin composites as model materials for commercial settings Discusses fundamental experimental and theoretical research on structural and physicochemical properties of porphyrin composites Demonstrates how complementary and alternative material designs that use porphyrin composites have evolved Emphasizes important uses for cutting edge multipurpose materials that might contribute to a more sustainable society Opens new possibilities by examining the role of developing unique hybrid composite and higher order hierarchical materials that may be utilized to make valuable chemicals Audience Researchers academicians chemists industry experts and students working in the fields of materials and environmental sciences engineering textiles biology and medicine

Functional Supramolecular Nanoassemblies of II-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

Nonlinear Wave Methods for Charge Transport Luis L. Bonilla, Stephen W.

Teitsworth, 2009-12-09 The present book introduces and develops mathematical techniques for the treatment of nonlinear waves and singular perturbation methods at a level that is suitable for graduate students researchers and faculty throughout the natural sciences and engineering The practice of implementing these techniques and their value are largely realized by showing their application to problems of nonlinear wave phenomena in electronic transport in solid state materials especially bulk semiconductors and semiconductor superlattices The authors are recognized leaders in this field with more than 30 combined years of contributions

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

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

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

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

Handbook of Magnetic Materials

Ekkes H. Brück, 2017-11-13 Handbook of Magnetic Materials Volume 26 covers the expansion of magnetism over the last few decades and its applications in research notably the magnetism of several classes of novel materials that share the presence of magnetic moments with truly ferromagnetic materials The book is an ideal reference for scientists active in magnetism research providing readers with novel trends and achievements in magnetism Each article contains an extensive description given in graphical as well as tabular form with much emphasis placed on the discussion of the experimental material within the framework of physics chemistry and material science Comprises topical review articles written by leading authorities Includes a variety of self contained

introductions to a given area in the field of magnetism without requiring recourse to the published literature Introduces given topics in the field of magnetism Describes novel trends and achievements in magnetism *Spin Transfer Torque Based Devices, Circuits, and Memory* Brajesh Kumar Kaushik, Shivam Verma, 2016-10-31 This first of its kind resource is completely dedicated to spin transfer torque STT based devices circuits and memory A wide range of topics including STT MRAMs MTJ based logic circuits simulation and modeling strategies fabrication of MTJ CMOS circuits non volatile computing with STT MRAMs all spin logic and spin information processing are explored State of the art modeling and simulation strategies of spin transfer torque based devices and circuits in a lucid manner are covered Professional engineers find practical guidance in the development of micro magnetic models of spin torque based devices in object oriented micro magnetic framework OOMMF and compact modeling of STT based magnetic tunnel junctions in Verilog A The performance parameters and design aspects of STT MRAMs and MTJ based hybrid spintronic CMOS circuits are covered and case studies are presented demonstrating STT MRAM design and simulation with a detailed analysis of results The fundamental physics of STT based devices are presented with an emphasis on new advancements from recent years Advanced topics are also explored including micromagnetic simulations multi level STT MRAMs giant spin Hall Effect GSHE based MRAMs non volatile computing all spin logic and all spin information processing *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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