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# **Spirally Anisotropic Composites**



Springer

# Spirally Anisotropic Composites

**Sybrand van der Zwaag**



## **Spirally Anisotropic Composites:**

**Spirally Anisotropic Composites** Garry Efimovich Freger, V. N. Kestelman, Dmitry Garrievich Freger, 2004-07-12 It is known that composites have insufficient transversal strength and rigidity and low longitudinal shear modulus compression and shear strength This book describes methods to avoid these disadvantages by hybridization and spiral reinforcement of composites at the micro level during the production stage Mathematical models and design methods have been developed for various composites The authors discuss the technology of spiral reinforcement and fillers the structures and properties of spirally reinforced composites binders the manufacture of such composites and the application of new materials and constructions This informative text will be of interest to researchers teachers and students in academia and also to industrial scientists and engineers involved in the development and application of new materials **Spirally Anisotropic**

**Composites** Garry Efimovich Freger, V. N. Kestelman, Dmitry Garrievich Freger, 2013-03-09 It is known that composites have insufficient transversal strength and rigidity and low longitudinal shear modulus compression and shear strength This book describes methods to avoid these disadvantages by hybridization and spiral reinforcement of composites at the micro level during the production stage Mathematical models and design methods have been developed for various composites The authors discuss the technology of spiral reinforcement and fillers the structures and properties of spirally reinforced composites binders the manufacture of such composites and the application of new materials and constructions This informative text will be of interest to researchers teachers and students in academia and also to industrial scientists and engineers involved in the development and application of new materials **Spirally Anisotropic Composites** Garry

Efimovich Freger, V N Kestelman, Dmitry Garrievich Freger, 2014-01-15 **Introduction to Wave Scattering, Localization and Mesoscopic Phenomena** Ping Sheng, 2006-08-25 Waves represent an important topic of study in physics mathematics and engineering This volume is a resource book for those interested in understanding the physics underlying nanotechnology and mesoscopic phenomena It aims to bridge the gap between the textbooks and research frontiers in wave related topics

*The Theory of Laser Materials Processing* John Dowden, 2009-01-06 The purpose of this book is to show how general principles afford insight into laser processes The principles may be from fundamental physical theory or from direct observation but understanding of the general characteristics of a process is essential SiC Power Materials Zhe Chuan Feng, 2013-03-14 In the 1950s Shockley predicted that SiC would quickly replace Si as a result of its superior material properties In many ways he was right and today there is an active industry based on SiC with new achievements being reported every year This book reviews the progress achieved in SiC research and development particularly over the past 10 years It presents the essential properties of 3C 6H and 4H SiC polytypes including structural electrical optical surface and interface properties describes existing key SiC devices and also the challenges in materials growth and device fabrication of the 21st century Overall it provides an up to date reference book suitable for a broad audience of newcomers graduate

students and engineers in industrial R D      **Magnetism and Structure in Functional Materials** Antoni Planes, Lluís Mañosa, Avadh Saxena, 2010-02-11 Magnetism and Structure in Functional Materials addresses three distinct but related topics i magnetoelastic materials such as magnetic martensites and magnetic shape memory alloys ii the magnetocaloric effect related to magnetostructural transitions and iii colossal magnetoresistance CMR and related manganites The goal is to identify common underlying principles in these classes of materials that are relevant for optimizing various functionalities The emergence of apparently different magnetic structural phenomena in disparate classes of materials clearly points to a need for common concepts in order to achieve a broader understanding of the interplay between magnetism and structure in this general class of new functional materials exhibiting ever more complex microstructure and function The topic is interdisciplinary in nature and the contributors correspondingly include physicists materials scientists and engineers Likewise the book will appeal to scientists from all these areas      **Hartree-Fock-Slater Method for Materials Science** Hirohiko Adachi, Takeshi Mukoyama, Jun Kawai, 2006-03-08 Molecular orbital calculations for materials design such as alloys ceramics and coordination compounds are now possible for experimentalists Molecular orbital calculations for the interpretation of chemical effect of spectra are also possible for experimentalists The most suitable molecular orbital calculation method for these purpose is the DV Xa method which is robust in such a way that the calculation converges to a result even if the structure of the molecule or solid is impossible in the pressure and temperature ranges on earth This book specially addresses the methods to design novel materials and to predict the spectralline shape of unknown materials using the DV Xa molecular orbital method but is also useful for those who want to calculate electronic structures of materials using any kind of method      *Atomistic and Continuum Modeling of Nanocrystalline Materials* Laurent Capolungo, 2010-03-17 Atomistic and Continuum Modeling of Nanocrystalline Materials develops a complete and rigorous state of the art analysis of the modeling of the mechanical behavior of nanocrystalline NC materials Among other key topics the material focuses on the novel techniques used to predict the behavior of nanocrystalline materials Particular attention is given to recent theoretical and computational frameworks combining atomistic and continuum approaches Also the most relevant deformation mechanisms governing the response of nanocrystalline materials are addressed and discussed in correlation with available experimental data      **Impurities Confined in Quantum Structures** Olof Holtz, Qing Xiang Zhao, 2013-04-17 The dramatic impact of low dimensional semiconductor structures on current and future device applications cannot be overstated Research over the last decade has highlighted the use of quantum engineering to achieve previously unknown limits for device performance in research laboratories The modified electronic structure of semiconductor quantum structures results in transport and optical properties which differ from those of constituent bulk materials The possibility to tailor properties such as bandgap strain band offset etc of two dimensional 2D semiconductors e.g quantum wells for specific purposes has had an extensive impact on the electronics which has resulted in a dramatic renewal process For instance 2D structures are today

used in a large number of high speed electronics and optoelectronic applications e.g. detectors, light emitting diodes, modulators, switches and lasers and in daily life in e.g. LED based traffic lights, CD players, cash registers. The introduction of impurities, also in very small concentrations, in a semiconductor can change its optical and electrical properties entirely. This attribute of the semiconductor is utilized in the manifoldness of their applications. This fact constitutes the principal driving force for investigation of the properties of the impurities in semiconductors. While the impurities in bulk materials have been investigated for a long time and their properties are fairly well established, by now the corresponding studies of impurities in quantum wells is a more recent research area. *Plastics for Corrosion Inhibition* V.A. Goldade, L.S. Pinchuk, A.V. Makarevich, V.N. Kestelman, 2006-03-30

One of the key problems of failure free operation of machinery is prevention of corrosion. The global scale of modern production makes this problem even more critical. At the beginning of the 21st century industrial contamination and the corrosion active nature of the environment reached a level such that corrosive damage of materials became commensurate with their production volume and expenditure on anticorrosion protection of machines became comparable with investments in basic production. Anticorrosion techniques changed from being an auxiliary service to industrial enterprises into a developing scientifically intensive and generously financed branch of production. Polymers occupy a very specific place amongst anticorrosion techniques. Polymers combine good chemical resistance with impermeability to different media and unusual deformation characteristics. The main principle of their application as anticorrosion means is the creation of a tight barrier that insulates metal machine parts or constructions from corrosion agents. The advantages of polymers allow the creation of such a barrier at minimal cost, providing protection of the working machines from corrosion, combining their manufacture with preservation and decreasing the cost of anticorrosion. This is one of the main reasons why world production of polymer materials increased by almost 50% in the past decade. **Lifetime Spectroscopy** Stefan Rein, 2005-06-23

Lifetime spectroscopy is one of the most sensitive diagnostic tools for the identification and analysis of impurities in semiconductors. Since it is based on the recombination process, it provides insight into precisely those defects that are relevant to semiconductor devices such as solar cells. This book introduces a transparent modeling procedure that allows a detailed theoretical evaluation of the spectroscopic potential of the different lifetime spectroscopic techniques. The various theoretical predictions are verified experimentally with the context of a comprehensive study on different metal impurities. The quality and consistency of the spectroscopic results as explained here confirms the excellent performance of lifetime spectroscopy. **Self Healing Materials** Sybrand van der Zwaag, 2007-10-12

This book, the first published in this new sub-field of materials science, presents a coherent picture of the design principles and resulting properties of self-healing materials over all material classes and offsets them to the current design principles for structural materials with improved mechanical properties. The book is not only a valuable asset for professional materials scientists but it is also suitable as a text book for courses at MSc level. Nanocrystals: C.N.R. Rao, P. John Thomas, G.U. Kulkarni, 2007-04-03

Nanocrystals and

Their Mesoscopic Organization is an up to date monograph on an important aspect of nanoscience and technology It opens with an elegant introduction including a brief historical account Emphasis is then given to diverse synthetic methods both chemical and physical in addition to modern hybrid methods The orientation shifts gradually to properties of nanocrystals that evolve with size detailed discussions are to be found on mesoscale assemblies in different dimensions special cases of core shell and magic nuclearity nanocrystals The authors also address applications of nanocrystals carefully separating out potential applications and those that have already emerged and cite around 900 references from the literature most from the last decade Tables providing information at a glance and schematic diagrams at relevant places make the monograph appealing to read Occasionally the reader is reminded of the contributions of celebrated past masters such as Michael Faraday In summary the monograph serves as a general introduction as well as a handy reference for the entire community of researchers and practitioners

**Reactive Sputter Deposition** Diederik Depla, Stijn Mahieu, 2008-06-24 The most straightforward method to change the surface properties of a material is to deposit a thin film or coating on it Hence it is not surprising that an overwhelming amount of scientific and technical papers is published each year on this topic Sputter deposition is one of the many so called physical vapour deposition PVD techniques In most cases sputter deposition uses a magnetically enhanced glow discharge or magnetron discharge to produce the ions which bombard and sputter the cathode material In the first chapter of this book Chap 1 the details of the sputter process are discussed Essential to sustain the discharge is the electron emission during ion bombardment Indeed the emitted electrons are accelerated from the target and can ionize gas atoms The formed ions bombard again the target completing the sustaining process A complete chapter is assigned to this process to highlight its importance Chap 2 Although the sustaining process can be described quite straightforward a complete understanding of the magnetron discharge and the influence of different parameters on the discharge characteristics is only possible by modelling see Chap 3 With these three chapters the reader should be able to form an idea of the target and plasma processes occurring during a DC magnetron discharge

**From Bulk to Nano** Carmen-Gabriela Stefanita, 2008-09-24 The inspiration for this book can be traced back many years to two major works that influenced the author's outlook on applied physics Ferromagnetism by R Becker W Doring Springer Berlin 1939 and Ferromagnetism by R M Bozorth IEEE Press New York 1951 The former work is a collection of lectures held in the 1930s for technicians attending a technical college The German language in which the work was originally written was extremely convenient for the author of this present book as it was for a long time the only comfortable technical language in an English speaking environment Later on upon encountering the work by Bozorth it was a relief to see the clarity and eloquence of the subjects presented in English despite the impressive thickness of the book Bozorth's work still constitutes a practical review for anyone in a multidisciplinary industry who comes across the various manifestations of magnetism The popularity of both works is so enduring that they are regarded as highly academic and yet extremely readable a reference in their own right

still attracting many readers these days in industry and academia The field of magnetism progressed immensely in the twentieth century and shows no signs of slowing down in the present one It has become so vast that it is quite often viewed only in its parts rather than as a whole In today's myriad of applications especially on a nanoscale and their changeable implications mostly on a macroscale it often seems that different aspects of reported work on magnetism are scattered and unrelated

**Materials for Tomorrow** Sibylle Gemming, Michael Schreiber, Jens Boie Suck, 2007-03-07 This book contains six chapters on central topics in materials science Each is written by specialists and gives a state of art presentation of the subject for graduate students and scientists not necessarily working in that field Computer simulations of new materials theory and experimental work are all extensively discussed Most of the topics discussed have a bearing on nanomaterials and nanodevices

**Plastic Deformation in Nanocrystalline Materials** Mikhail Gutkin, Ilya Ovid'ko, 2013-04-18 It seems there is no special need to comment on the term nanostructure now when one often meets the nano words not only in scientific journals but even in newspapers Moreover today they are even to be heard in TV and radio programmes In academic science where the terms nanostructure and nanotechnology have been extremely popular since the early 1990s they have been successfully extended to the sphere of economics and business and now to politics This is quite natural because nanostructures and nanotechnologies will surely serve as a basis for the most advanced and highest technology production in the nearest and probably also the remote future Hence the struggle to create and occupy its markets is already under way In this respect it is of great interest to review data on the dynamics of U S Federal Government expenditure for nanotechnology 1 2 In the fiscal years 1997 and 2002 expenditure was approximately US 116 and US 697 million respectively In the fiscal year 2004 the President's request for US federal investment in nanoscale science engineering and technology is about US 849 million 2 The indicative budget allocated to the Thematic Priority entitled Nanotechnologies and nanosciences knowledge based multifunctional materials and new production processes and devices for the duration 2002 2006 of the sixth EU Framework Programme for Research and Technological Development is EUR 1300 million 3

**Applications of the Isotopic Effect in Solids** Vladimir G. Plekhanov, 2013-04-17 This is the first book in world literature devoted to applications of the isotopic effect in solids It is accessible to physicists chemists electronic engineers and material scientists alike This book is intended both as tutorial and as reference Readers seeking to learn the basics of application of the isotopic effect in solids should start by reading the first few overview chapters and then dig into descriptions of specific applications to see how they really work It is hoped that it will be useful to undergraduate and graduate students of physics and optics as well as engineers physicists material scientists and medical doctors who are interested in investigation or applications of the isotopic effect in solids This book is a state of the art introduction to very recent activity in solid state physics which has developed in the main during the last half century and promises a new technology of isotopic engineering Important applications are to be expected for information storage and developing materials

for computer memory quantum computers isotopic bers isotopic optoelectronics and quantum electronics as well as UV lasers The references I cite are those with which I am most familiar and which have helped us understand the subject as presented here There has been no attempt to give credit to each contributor but I have tried to cite the original papers which brought new and important results methods to applications of the isotopic effect in solids covered in this text

**Spectroscopic Properties of Rare Earths in Optical Materials** Guokui Liu, Bernard Jacquier, 2006-01-29 Aimed at researchers and graduate students this book provides up to date information about the electronic interactions that impact the optical properties of rare earth ions in solids Its goal is to establish a connection between fundamental principles and the materials properties of rare earth activated luminescent and laser optical materials The theoretical survey and introduction to spectroscopic properties covers electronic energy level structure intensities of optical transitions ion phonon interactions line broadening and energy transfer and up conversion An important aspect of the book lies in its deep and detailed discussions of materials properties and the potential of new applications such as optical storage information processing nanophotonics and molecular probes that have been identified in recent experimental studies This volume will be a valuable reference book on advanced topics of rare earth spectroscopy and materials science



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