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Spirally Anisotropic Composites



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Spirally Anisotropic Composites

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Internal Friction in Metallic Materials Mikhail S. Blanter, Igor S. Golovin, Hartmut Neuhäuser, Hans-Rainer Sinning, 2007-05-17 This book is a unique collection of experimental data in the field of internal friction anelastic relaxation and damping properties of metallic materials It reviews virtually all anelastic relaxation phenomena ever published The reader is also supplied with explanations of the basic physical mechanisms of internal friction a summary of typical effects for different groups of metals and more than 2000 references to original papers

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

Dilute III-V Nitride Semiconductors and Material Systems Ayse Erol, 2008-01-12 A major current challenge for semiconductor devices is to develop materials for the

next generation of optical communication systems and solar power conversion applications Recently extensive research has revealed that an introduction of only a few percentages of nitrogen into III V semiconductor lattice leads to a dramatic reduction of the band gap This discovery has opened the possibility of using these material systems for applications ranging from lasers to solar cells Physics and Technology of Dilute III V Nitride Semiconductors and Novel Dilute Nitride Material Systems reviews the current status of research and development in dilute III V nitrides with 24 chapters from prominent research groups covering recent progress in growth techniques experimental characterization of band structure defects carrier transport transport properties dynamic behavior of N atoms device applications modeling of device design novel optoelectronic integrated circuits and novel nitrogen containing III V materials

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

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

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 **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

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