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Organic Photovoltaics

Concepts and Realization

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extremely complex and the relevant influences range from single point defects to macroscopic boundary conditions This book summarizes the different aspects of fatigue in ferroelectrics It is primarily concerned with bulk material effects Mechanical electrical and physico chemical processes are described reference data are given for different loading regimes and boundary conditions and various fatigue models are compared The monograph also demonstrates how the results of acoustic emission and of microscopy studies reveal the microscopic origins of fatigue in ferroelectric devices **Impurities Confined in** Quantum Structures Olof Holtz, Qing Xiang Zhao, 2013-04-17 The dramatic impact of low dimensional semiconductor structures on c rent and future device applications cannot be overstated Research over the last decade has highlighted the use of quantum engineering to achieve p viously unknown limits for device performance in research laboratories The modi ed electronic structure of semiconductor quantum structures results in transport and optical properties which di er from those of constituent bulk materials The possibility to tailor properties such as bandgap strain band o set etc of two dimensional 2D semiconductors e g quantum wells for speci c 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 applitions eq detectors light emitting diodes modulators switches and lasers and in daily life in eq LED based tra c 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 app cations 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 **Fundamentals of Ion-Irradiated Polymers** Dietmar Fink, 2013-03-14 Presented in two parts this first comprehensive overview addresses all aspects of energetic ion irradiation of polymers Earlier publications and review articles concentrated on selected topics only And the need for such a work has grown with the dramatic increase of research and applications such as in photoresists waveguides and medical dosimetry during the last decade The first part Fundamentals of Ion Irradiated Polymers covers the physical chemical and instrumental fundamentals treats the specific irradiation mechanisms of low and high energy ions including similarities and differences and details the potential for future technological application All the new findings are carefully analyzed and presented in a systematic way while open questions are identified The second volume Transport Processes in Ion Irradiated Polymers deals with transport processes in both unirradiated and irradiated polymers As both a review and a stimulus this work seeks to contribute substantially to the literature and advancement of polymeric devices from both the low and high energy regimes Applications of the **Isotopic Effect in Solids** Vladimir G. Plekhanov, 2004-07-21 Readers intent on mastering the basics should start by reading the first few overview chapters and then delve into the descriptions of specific current applications to see how they actually

work Important future applications are also outlined including information storage materials for computer memories quantum computers isotopic fibers isotopic optoelectronics and quantum electronics Dissipative Phenomena in Condensed Matter Sushanta Dattagupta, Sanjay Puri, 2004-02-20 A reference and text Dissipative Phenomena treats the broadly applicable area of nonequilibrium statistical physics and concentrates the modelling and characterization of dissipative phenomena A variety of examples from diverse disciplines such as condensed matter physics materials science metallurgy chemical physics are discussed Dattagupta employs a broad framework of stochastic processes and master equation techniques to obtain models for a range of experimentally relevant phenomena such as classical and quantum Brownian motion spin dynamics kinetics of phase ordering relaxation in glasses and dissipative tunnelling This book will serve as a graduate research level textbook since it offers considerable utility to experimentalists computational physicists and theorists Organic Photovoltaics Sam-Shajing Sun, Niyazi Serdar Sariciftci, 2017-12-19 Recently developed organic photovoltaics OPVs show distinct advantages over their inorganic counterparts due to their lighter weight flexible shape versatile materials synthesis and device fabrication schemes and low cost in large scale industrial production Although many books currently exist on general concepts of PV and inorganic PV materials and devices few are available that offer a comprehensive overview of recently fast developing organic and polymeric PV materials and devices Organic Photovoltaics Mechanisms Materials and Devices fills this gap The book provides an international perspective on the latest research in this rapidly expanding field with contributions from top experts around the world It presents a unified approach comprising three sections General Overviews Mechanisms and Modeling and Materials and Devices Discussions include sunlight capture exciton diffusion and dissociation interface properties charge recombination and migration and a variety of currently developing OPV materials devices The book also includes two forewords one by Nobel Laureate Dr Alan J Heeger and the other by Drs Aloysius Hepp and Sheila Bailey of NASA Glenn Research Center Organic Photovoltaics equips students researchers and engineers with knowledge of the mechanisms materials devices and applications of OPVs necessary to develop cheaper lighter and cleaner renewable energy throughout the coming decades **Multifunctional Barriers for** Flexible Structure Sophie Duquesne, Carole Magniez, Giovanni Camino, 2007-08-29 This is the first complete overview of the present state of the art of flexible barrier materials such as textile paper and leather including methods for barrier evaluation It will be of interest to readers in industries consumers and members of the scientific community The scope of the field is clearly delineated here for the first time and it deals with a number of specific topics such as barrier to fire and antibacterial Fullerenes and Other Carbon-Rich Nanostructures Jean-François Nierengarten, 2014-05-16 Yanfei Shen properties and Takashi Nakanishi Exotic Self Organized Fullerene Materials Based on Uncommon Hydrophobic Amphiphilic Approach Yuming Zhao and Guang Chen C60 Fullerene Amphiphiles as Supramolecular Building Blocks for Organized and Well Defined Nano scale Objects Anna Troeger Vito Sgobba and Dirk M Guldi Multilayer Assembly for Solar Energy Conversion

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