

MATERIALS SCIENCE

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# Organic Photovoltaics

Concepts  
and Realization



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# Organic Photovoltaics Concepts And Realization Springer Series In Materials Science

**Marcel A. Müller**



## **Organic Photovoltaics Concepts And Realization Springer Series In Materials Science:**

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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 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

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**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

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**Fullerenes and Other Carbon-Rich Nanostructures** Jean-François Nierengarten, 2014-05-16 Yanfei Shen 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

Delphine Felder Flesch Self or Induced Organization of 60 Fullerene Hexakisadducts Andr s de la Escosura Olga Trukhina and Tom s Torres Dual Role of Phthalocyanines in Carbon Nano structure Based Organic Photovoltaics Riccardo Marega Davide Giust and Davide Bonifazi Supramolecular Chemistry of Carbon Nano tubes at Interfaces Toward Applications Stephanie Frankenberger Johanna A Januszewski and Rik R Tykwinski Oligomers from sp Hybridized Carbon Cumulenes and Polyynes      **Transparent Conductive Zinc Oxide** Klaus Ellmer, Andreas Klein, Bernd Rech, 2007-12-29 Zinc oxide ZnO belongs to the class of transparent conducting oxides that can be used as transparent electrodes in electronic devices or heated windows In this book the material properties of the deposition technologies for and applications of zinc oxide in thin film solar cells are described in a comprehensive manner Structural morphological optical and electronic properties of ZnO are treated in this review      *Carbon Nanotubes and Related Structures* Dirk M. Guldi, Nazario Mart n, 2010-01-26 Written by the most prominent experts and pioneers in the field this ready reference combines fundamental research recent breakthroughs and real life applications in one well organized treatise As such both newcomers and established researchers will find here a wide range of current methods for producing and characterizing carbon nanotubes using imaging as well as spectroscopic techniques One major part of this thorough overview is devoted to the controlled chemical functionalization of carbon nanotubes covering intriguing applications in photovoltaics organic electronics and materials design The latest research on novel carbon derived structures such as graphene nanooxides and carbon pea pods round off the book



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