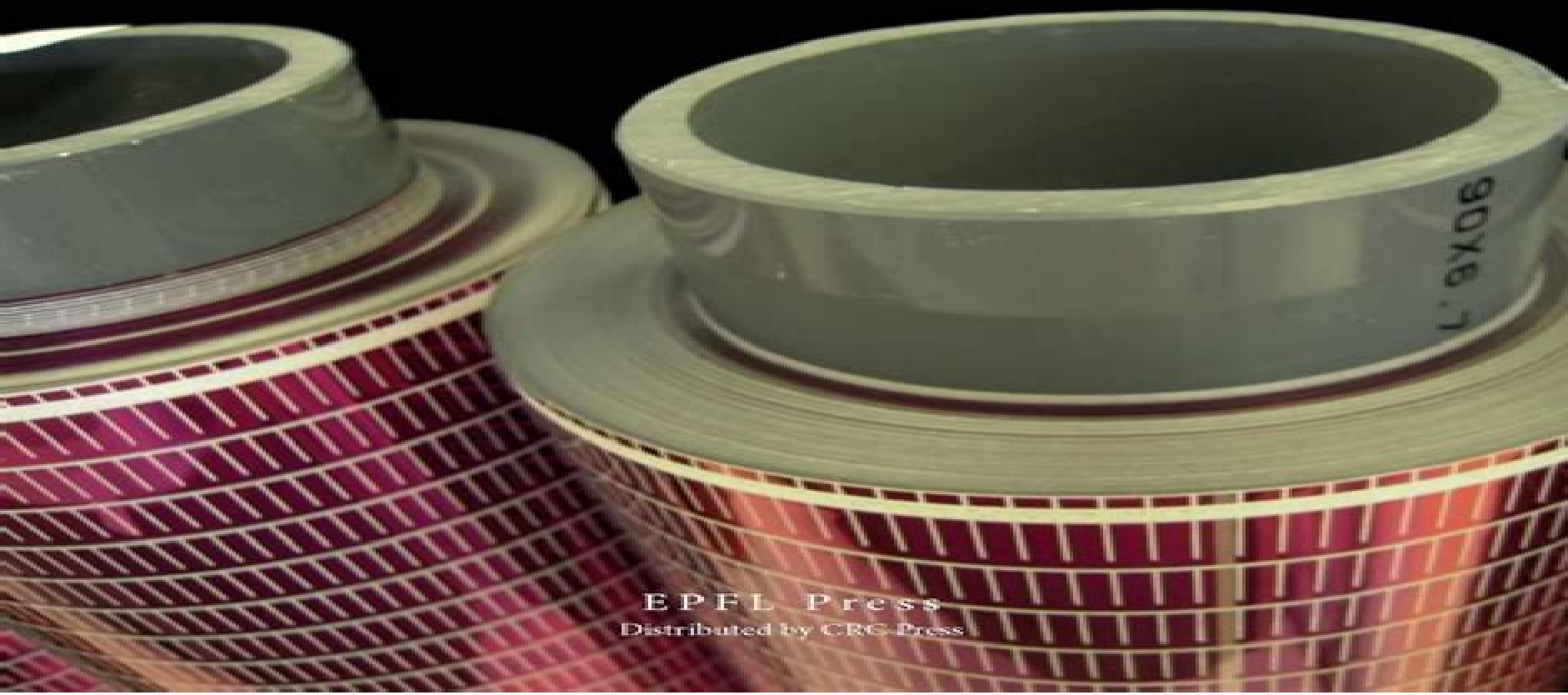


ENGINEERING SCIENCES

Micro- and Nanotechnology

THIN-FILM SILICON SOLAR CELLS

Arvind Shah, Editor



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Thin Film Silicon Solar Cells Engineering Sciences Micro And Nanotechnology

Loucas Tsakalacos



Thin Film Silicon Solar Cells Engineering Sciences Micro And Nanotechnology:

Thin-Film Silicon Solar Cells Arvind Victor Shah, 2010-08-19 Photovoltaic technology has now developed to the extent that it is close to fulfilling the vision of a solar energy world as devices based on this technology are becoming efficient low cost and durable This book provides a comprehensive treatment of thin film silicon a prevalent PV material in terms of its semiconductor nature startin Thin-Film Silicon Solar Cells Arvind Shah, 2010-08-19 Photovoltaic technology has now developed to the extent that it is close to fulfilling the vision of a solar energy world as devices based on this technology are becoming efficient low cost and durable This book provides a comprehensive treatment of thin film silicon a prevalent PV material in terms of its semiconductor nature starting out with the physical properties but concentrating on device applications A special emphasis is given to amorphous silicon and microcrystalline silicon as photovoltaic materials along with a model that allows these systems to be physically described in the simplest manner possible thus allowing the student or scientist engineer entering the field of thin film electronics to master a few basic concepts that are distinct from those in the field of conventional semiconductors The main part of the book deals with solar cells and modules by illustrating the basic functioning of these devices along with their limitations design optimization testing and fabrication methods Among the manufacturing processes discussed are plasma assisted and hot wire deposition sputtering and structuring techniques

Silicon Based Thin Film Solar Cells Roberto Murri, 2013-03-20 Silicon Based Thin Film Solar Cells explains concepts related to technologies for silicon Si based photovoltaic applications Topics in this book focus on new concept solar cells These kinds of cells can make photovoltaic power production an economically viable option in comparison to the bulk crystalline semiconductor technology industry A transition from bulk crystalline Si solar cells toward thin film technologies reduces usage of active material and introduces new concepts based on nanotechnologies Despite its importance the scientific development and understanding of new solar cells is not very advanced and educational resources for specialized engineers and scientists are required This textbook presents the fundamental scientific aspects of Si thin films growth technology together with a clear understanding of the properties of the material and how this is employed in new generation photovoltaic solar cells The textbook is a valuable resource for graduate students working on their theses young researchers and all people approaching problems and fundamental aspects of advanced photovoltaic conversion Diffractive Optics for Thin-Film Silicon Solar Cells Christian Stefano Schuster, 2016-09-26 This thesis introduces a figure of merit for light trapping with photonic nanostructures and shows how different light trapping methods compare irrespective of material absorber thickness or type of nanostructure It provides an overview of the essential aspects of light trapping offering a solid basis for future designs Light trapping with photonic nanostructures is a powerful method of increasing the absorption in thin film solar cells Many light trapping methods have been studied but to date there has been no comprehensive figure of merit to compare these different methods quantitatively This comparison allows us to establish important design rules for highly

performing structures one such rule is the structuring of the absorber layer from both sides for which the authors introduce a novel and simple layer transfer technique A closely related issue is the question of plasmonic vs dielectric nanostructures the authors present an experimental demonstration aided by a detailed theoretical assessment highlighting the importance of considering the multipass nature of light trapping in a thin film which is an essential effect that has been neglected in previous work and which allows us to quantify the parasitic losses

Smart Materials for Science and Engineering

Upendra Kumar,Piyush Kumar Sonkar,2024-06-05 SMART MATERIALS FOR SCIENCE AND ENGINEERING Smart materials also known as advanced or creative materials are described as advanced materials that react intuitively to environmental changes or as materials that can return to their original shape in response to certain stimuli Smart materials are classified as either active or passive based on their characteristics There are two types of active materials The first kind cannot change its characteristics when subjected to outside stimuli for example photochromatic spectacles that only alter their color when exposed to sunlight The other which includes piezoelectric materials can change one sort of energy thermal electrical chemical mechanical or optical into another When subjected to external pressure it can generate an electric charge As an example optical fibers can transmit electromagnetic waves In contrast passive smart materials can transmit a specific sort of energy They have some amazing qualities that set them apart from other materials such as transiency meaning they can react to different kinds of external stimuli immediately self actuation or the capacity to change their appearance and shape selectivity where the response is divided and expected directness when the response is limited to the activating event shape changing where the material can change its shape to external stimuli their ability to determine their own health also known as self diagnosis and their ability to self heal The ability to synthesize novel materials has substantially progressed thanks to science and technology over the past 20 years They fall mostly into the following four categories polymers ceramics metals and smart materials Among these smart materials are gaining popularity since they have more uses than conventional materials Smart materials are unusual substances that have the ability to alter their properties such as those that can immediately change their phase when placed near a magnet or their shape simply by applying heat Humanity will be significantly impacted by this new era of smart materials For instance some of them can adapt their properties to the environment some have sensory capabilities some can repair themselves automatically and some can degrade themselves These extraordinary properties of smart materials will have an effect on all facets of civilization There are many different types of intelligent materials including magnetorheological materials electro rheostat materials shape memory alloys piezoelectric materials and more This book describes many forms of smart materials and their possible uses in various fields A literature survey discusses the different types of smart materials such as based ceramics polymers and organic compounds and their needs advantages disadvantages and applications will be comprehensively discussed A discussion of well established smart materials including piezoelectric magnetostrictive shape memory alloy electro rheological fluid and

magnetorheological fluid materials will be discussed with their present prospects Nanocrystals and Nanostructures Claudia Maria Simonescu, 2018-10-17 Nanocrystals and nanostructures attract a special attention in the recent years due to their various properties and a wide range of applications such as in electrical optical optoelectronic catalytic medicine chemo and biosensing and environmental protection fields Although extensive research has been done in the field of nanocrystals it is considered one growing research field The main goal of this book is to present the current research activities in the field of nanocrystals and nanostructures covering issues regarding new synthesis methods self assembly strategies characterization techniques properties and applications Interesting reports regarding biomimetic modeling of the biomineralization processes and theoretical models to describe mechanisms of deformation twinning in nanocrystalline and ultrafine grained materials have been presented By structuring approaching and content the work may be useful for specialist in the field of nano materials science PhD students students and all those interested in this topic of high relevance **Micro- and Nanotechnology for Space Systems** Henry Helvajian, Ernest Y. Robinson, 1997 Microengineering and microelectromechanical systems MEMS are a subject of considerable current interest involving research and development throughout the world This first volume of a series on this topic reviews and evaluates micro and nanotechnologies applicable to U S Air Force and commercial space systems It introduces the concept of application specific integrated microinstrument ASIM an intelligent microinstrument Nanotechnology for Photovoltaics Loucas Tsakalakos, 2010-03-25 Current concerns regarding greenhouse gas related environmental effects energy security and the rising costs of fossil fuel based energy has renewed interest in solar energy in general and photovoltaics in particular Exploring state of the art developments from a practical point of view Nanotechnology for Photovoltaics examines issues in increas Nano-Structured Photovoltaics Vinod Kumar Khanna, 2022-12-20 Presenting a comprehensive overview of a rapidly burgeoning field blending solar cell technology with nanotechnology the book covers topics such as solar cell basics nanotechnology fundamentals nanocrystalline silicon based solar cells nanotextured surface solar cells plasmon enhanced solar cells optically improved nanoengineered solar cells dye sensitized solar cells 2D perovskite and 2D 3D multidimensional perovskite solar cells carbonaceous nanomaterial based solar cells quantum well solar cells nanowire solar cells and quantum dot solar cells The book provides an in depth and lucid presentation of the subject matter in an elegant easy to understand writing style starting from basic knowledge through principles of operation and fabrication of devices to advanced research levels encompassing the recent breakthroughs and cutting edge innovations It will be useful for graduate and PhD students scientists and engineers Key features Builds an integrated perspective of photovoltaics by highlighting the essential role of nanotechnology in each type of solar cell Performs simplified mathematical analysis of operational mechanisms of nanostructured solar cells supplemented with solved examples Enhances learning with clear explanations of technological advances and illustrative diagrams without sacrificing scientific rigor *Solar Cells* S. K. Sharma, Khuram Ali, 2020-01-07 This book addresses the rapidly developing class of solar

cell materials and designed to provide much needed information on the fundamental principles of these materials together with how these are employed in photovoltaic applications A special emphasize have been given for the space applications through study of radiation tolerant solar cells This book present a comprehensive research outlining progress on the synthesis fabrication and application of solar cells from fundamental to device technology and is helpful for graduate students researchers and technologists engaged in research and development of materials

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