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High-Efficiency Solar Cells with Compound Semiconductors



Semiconductors For Solar Cells

Arvind Shah



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Semiconductors for Solar Cells Hans Joachim Möller, 1993 *Semiconductors for Solar Cells* bridges the gap between materials science and device design for solar cells It is systematically divided into three parts that address different aspects of photovoltaic energy conversion **Semiconductor Materials and Modelling for Solar Cells** Z. Pezeshki, A.

Zekry, 2021-07-05 The book presents a comprehensive survey about advanced solar cell technologies Focus is placed on semiconductor materials solar cell efficiency improvements in surface recombination velocity charge density high ultraviolet UV sensitivity modeling of solar cells etc The book references 281 original resources with their direct web links for in depth reading Keywords Solar Cells Thin Film Solar Cells Solar Cell Efficiency Semiconductor Materials Surface Recombination Velocity Charge Density High UV Sensitivity Heavily doped Silicon Wafers Amorphous Semiconductors Nanocrystalline Semiconductors Field Effect Ferroelectric Semiconductors Solar Cell Modelling *The Physics Of Solar Cells* Jenny A

Nelson, 2003-05-09 This book provides a comprehensive introduction to the physics of the photovoltaic cell It is suitable for undergraduates graduate students and researchers new to the field It covers basic physics of semiconductors in photovoltaic devices physical models of solar cell operation characteristics and design of common types of solar cell and approaches to increasing solar cell efficiency The text explains the terms and concepts of solar cell device physics and shows the reader how to formulate and solve relevant physical problems Exercises and worked solutions are included **Semiconductor**

Materials for Solar Photovoltaic Cells M. Parans Paranthaman, Winnie Wong-Ng, Raghu N. Bhattacharya, 2015-09-16 This book reviews the current status of semiconductor materials for conversion of sunlight to electricity and highlights advances in both basic science and manufacturing Photovoltaic PV solar electric technology will be a significant contributor to world energy supplies when reliable efficient PV power products are manufactured in large volumes at low cost Expert chapters cover the full range of semiconductor materials for solar to electricity conversion from crystalline silicon and amorphous silicon to cadmium telluride copper indium gallium sulfide selenides dye sensitized solar cells organic solar cells and environmentally friendly copper zinc tin sulfide selenides The latest methods for synthesis and characterization of solar cell materials are described together with techniques for measuring solar cell efficiency *Semiconductor Materials for Solar Photovoltaic Cells* presents the current state of the art as well as key details about future strategies to increase the efficiency and reduce costs with particular focus on how to reduce the gap between laboratory scale efficiency and commercial module efficiency This book will aid materials scientists and engineers in identifying research priorities to fulfill energy needs and will also enable researchers to understand novel semiconductor materials that are emerging in the solar market This integrated approach also gives science and engineering students a sense of the excitement and relevance of materials science in the development of novel semiconductor materials Provides a comprehensive introduction to solar PV cell materials Reviews current and future status of solar cells with respect to cost and efficiency Covers the full range of solar

cell materials from silicon and thin films to dye sensitized and organic solar cells Offers an in depth account of the semiconductor material strategies and directions for further research Features detailed tables on the world leaders in efficiency demonstrations Edited by scientists with experience in both research and industry *Solar Cells and Modules* Arvind Shah, 2020-07-16 This book gives a comprehensive introduction to the field of photovoltaic PV solar cells and modules In thirteen chapters it addresses a wide range of topics including the spectrum of light received by PV devices the basic functioning of a solar cell and the physical factors limiting the efficiency of solar cells It places particular emphasis on crystalline silicon solar cells and modules which constitute today more than 90 % of all modules sold worldwide Describing in great detail both the manufacturing process and resulting module performance the book also touches on the newest developments in this sector such as Tunnel Oxide Passivated Contact TOPCON and heterojunction modules while dedicating a major chapter to general questions of module design and fabrication Overall it presents the essential theoretical and practical concepts of PV solar cells and modules in an easy to understand manner and discusses current challenges facing the global research and development community Amorphous Silicon Solar Cells Kiyoshi Takahashi, Makoto Konagai, 1986

Physics and Technology of Amorphous-Crystalline Heterostructure Silicon Solar Cells Wilfried G. J. H. M. van Sark, Lars Korte, Francesco Roca, 2011-11-16 Today's solar cell multi GW market is dominated by crystalline silicon c Si wafer technology however new cell concepts are entering the market One very promising solar cell design to answer these needs is the silicon heterojunction solar cell of which the emitter and back surface field are basically produced by a low temperature growth of ultra thin layers of amorphous silicon In this design amorphous silicon a Si H constitutes both emitter and base contact back surface field on both sides of a thin crystalline silicon wafer base c Si where the electrons and holes are photogenerated at the same time a Si H passivates the c Si surface Recently cell efficiencies above 23% have been demonstrated for such solar cells In this book the editors present an overview of the state of the art in physics and technology of amorphous crystalline heterostructure silicon solar cells The heterojunction concept is introduced processes and resulting properties of the materials used in the cell and their heterointerfaces are discussed and characterization techniques and simulation tools are presented Crystalline Silicon Solar Cells Adolf Goetzberger, Joachim Knobloch, Bernhard Voss, 1998

Amorphous and Microcrystalline Silicon Solar Cells: Modeling, Materials and Device Technology Ruud E.I. Schropp, Miro Zeman, 2016-07-18 Amorphous silicon solar cell technology has evolved considerably since the first amorphous silicon solar cells were made at RCA Laboratories in 1974 Scientists working in a number of laboratories worldwide have developed improved alloys based on hydrogenated amorphous silicon and microcrystalline silicon Other scientists have developed new methods for growing these thin films while yet others have developed new photovoltaic PV device structures with improved conversion efficiencies In the last two years several companies have constructed multi megawatt manufacturing plants that can produce large area multijunction amorphous

silicon PV modules A growing number of people believe that thin film photovoltaics will be integrated into buildings on a large scale in the next few decades and will be able to make a major contribution to the world's energy needs In this book Ruud E I Schropp and Miro Zeman provide an authoritative overview of the current status of thin film solar cells based on amorphous and microcrystalline silicon They review the significant developments that have occurred during the evolution of the technology and also discuss the most important recent innovations in the deposition of the materials the understanding of the physics and the fabrication and modeling of the devices

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

Fundamentals of Solar Cell Design Inamuddin, Mohd Imran Ahamed, Rajender Boddula, Mashallah Rezakazemi, 2021-08-24

Edited by one of the most well respected and prolific engineers in the world and his team this book provides a comprehensive overview of solar cells and explores the history of evolution and present scenarios of solar cell design classification properties various semiconductor materials thin films wafer scale transparent solar cells and other fundamentals of solar cell design Solar cells are semiconductor devices that convert light photons into electricity in photovoltaic energy conversion and can help to overcome the global energy crisis Solar cells have many applications including remote area power systems earth orbiting satellites wristwatches water pumping photodetectors and remote radiotelephones Solar cell technology is economically feasible for commercial scale power generation While commercial solar cells exhibit good performance and stability still researchers are looking at many ways to improve the performance and cost of solar cells via modulating the fundamental properties of semiconductors Solar cell technology is the key to a clean energy future Solar cells directly harvested energy from the sun's light radiation into electricity are in an ever growing demand for future global energy production Solar cell based energy harvesting has attracted worldwide attention for its notable features such as cheap renewable technology scalable lightweight flexibility versatility no greenhouse gas emission and economy friendly and operational costs Thus solar cell technology is at the forefront of renewable energy technologies which are used in telecommunications power plants small devices to satellites Large scale implementation can

be manipulated by various types used in solar cell design and exploration of new materials towards improving performance and reducing cost Therefore in depth knowledge about solar cell design is fundamental for those who wish to apply this knowledge and understanding in industries and academics This book provides a comprehensive overview on solar cells and explores the history to evolution and present scenarios of solar cell design classification properties various semiconductor materials thin films wafer scale transparent solar cells and so on It also includes solar cells characterization analytical tools theoretical modeling practices to enhance conversion efficiencies applications and patents This outstanding new volume Provides state of the art information about solar cells Is a unique reference guide for researchers in solar energy Includes novel innovations in the field of solar cell technology Audience This book is a unique reference guide that can be used by faculty students researchers engineers device designers and industrialists who are working and learning in the fields of semiconductors chemistry physics electronics light science material science flexible energy conversion industrial and renewable energy sectors

Semiconductor Materials and Modelling for Solar Cells Z. Pezeshki,A. Zekry,2021-07-05 The book presents a comprehensive survey about advanced solar cell technologies Focus is placed on semiconductor materials solar cell efficiency improvements in surface recombination velocity charge density high ultraviolet UV sensitivity modeling of solar cells etc The book references 281 original resources with their direct web links for in depth reading Keywords Solar Cells Thin Film Solar Cells Solar Cell Efficiency Semiconductor Materials Surface Recombination Velocity Charge Density High UV Sensitivity Heavily doped Silicon Wafers Amorphous Semiconductors Nanocrystalline Semiconductors Field Effect Ferroelectric Semiconductors Solar Cell Modelling

Silicon Solar Cell Metallization and Module Technology Thorsten Dullweber,Loic Tous,2021-12-13 Metallization is a key step in manufacturing of efficient and reliable solar cells Written by world wide renowned experts this work covers metallization technologies before describing ongoing R D activities for the most relevant silicon solar cells metallization technologies Later chapters deal with aspects of solar cell modules

Principles of Solar Cells, LEDs and Diodes Adrian Kitai,2011-09-13 The book will cover the two most important applications of semiconductor diodes solar cells and LEDs together with quantitative coverage of the physics of the PN junction at the senior undergraduate level It will include Review of semiconductor physics Introduction to PN diodesThe solar cell Physics of efficient conversion of sunlight into electrical energy Semiconductor solar cell materials and device physics Advanced solar cell materials and devices The light emitting diode Physics of efficient conversion of electrical energy into light Semiconductor light emitting diode materials and device physics Advanced light emitting diode materials and devices

High-Efficiency Crystalline Silicon Solar Cells Eun-Chel Cho,Hae-Seok Lee,2021-01-06 This book is composed of 6 papers The first paper reports a novel technique for the selective emitter formation by controlling the surface morphology of Si wafers Selective emitter SE technology has attracted renewed attention in the Si solar cell industry to achieve an improved conversion efficiency of passivated emitter rear contact PERC cells In the second paper the temperature

dependence of the parameters was compared through the PERC of the industrial scale solar cells. As a result of their analysis, PERC cells showed different temperature dependence for the fill factor loss as temperatures rose. The third paper reports the effects of carrier selective front contact layer and defect state of hydrogenated amorphous silicon passivation layer on the n-type crystalline silicon interface. The results demonstrated the effects of band offset determined by band bending at the interface of the passivation layer and carrier selective front contact layer. In addition, the $\text{nc-SiO}_x\text{H}$ CSFC layer not only reduces parasitic absorption loss but also has a tunneling effect and field effect passivation. The fourth paper reports excimer laser annealing of hydrogenated amorphous silicon film for TOPCon solar cell application. This paper analyzes the crystallization of a Si-H via excimer laser annealing (ELA) and compared this process with conventional thermal annealing. The fifth paper reports the contact mechanism between Ag/Al and Si and the change in contact resistance R_c by varying the firing profile. R_c was measured by varying the belt speed and peak temperature of the fast firing furnace. The sixth paper reports a silicon tandem heterojunction solar cell based on a $\text{ZnO/Cu}_2\text{O}$ subcell and a c-Si bottom subcell using electro-optical numerical modeling. The buffer layer affinity and mobility together with a low conduction band offset for the heterojunction are discussed as well as spectral properties of the device model.

Solar Cells Sandeep Arya, Prerna Mahajan, 2023-11-16. This book highlights developments in the field of solar cells. The chapters in this book address a wide range of topics including the spectrum of light received by solar cell devices, the basic functioning of a solar cell, and the evolution of solar cell technology during the last 50 years. It places particular emphasis on silicon solar cells, CIGS-based solar cells, organic solar cells, perovskite solar cells, and hybrid solar cells. The book describes in detail the fabrication processes employed for different categories of solar cells. It also provides the characterization techniques utilized in this sector to evaluate the performance of solar cells and the scope of this domain in the future. Overall, it presents the essential theoretical and practical concepts of solar cells in an easy-to-understand manner.

Solar Cell Materials Arthur Willoughby, 2014-01-13. This book presents a comparison of solar cell materials including both new materials based on organics, nanostructures, and novel inorganics, and developments in more traditional photovoltaic materials. It surveys the materials and materials trends in the field, including third-generation solar cells, multiple energy level cells, thermal approaches, and the modification of the solar spectrum with an eye firmly on low costs, energy efficiency, and the use of abundant, non-toxic materials.

Photon Absorption Models in Nanostructured Semiconductor Solar Cells and Devices Antonio Luque, Alexander Virgil Mellor, 2015-02-12. This book is intended to be used by materials and device physicists and also solar cells researchers. It models the performance characteristics of nanostructured solar cells and resolves the dynamics of transitions between several levels of these devices. An outstanding insight into the physical behaviour of these devices is provided, which complements experimental work. This therefore allows a better understanding of the results, enabling the development of new experiments and optimization of new devices. It is intended to be accessible to researchers but also to provide engineering tools which are often only accessible to

quantum physicists Photon Absorption Models in Nanostructured Semiconductor Solar Cells and Devices is intended to provide an easy to handle means to calculate the light absorption in nanostructures the final goal being the ability to model operational behaviour of nanostructured solar cells It allows researchers to design new experiments and improve solar cell performances and offers a means for the easy approximate calculation of the energy spectrum and photon absorption coefficients of nanostructures This calculation is based on the effective mass model and uses a new Hamiltonian called the Empirical kp Hamiltonian which is based on a four band kp model **Earth-Abundant Materials for Solar Cells** Sadao Adachi, 2015-10-28 Systematically describes the physical and materials properties of copper based quaternary chalcogenide semiconductor materials enabling their potential for photovoltaic device applications Intended for scientists and engineers in particular in the fields of multinary semiconductor physics and a variety of photovoltaic and optoelectronic devices

Advances in Photovoltaics: Part 3, 2014-12-01 This volume is the third of a set of seven on the topic of photovoltaics Solar cell related technologies covered here include ribbon silicon heterojunction crystalline silicon wafer equivalent crystalline silicon and other advanced silicon solar cell structures and processes Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors Originally widely known as the Willardson and Beer Series it has succeeded in publishing numerous landmark volumes and chapters The series publishes timely highly relevant volumes intended for long term impact and reflecting the truly interdisciplinary nature of the field The volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in academia scientific laboratories and modern industry Written and edited by internationally renowned experts Relevant to a wide readership physicists chemists materials scientists and device engineers in academia scientific laboratories and modern industry

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