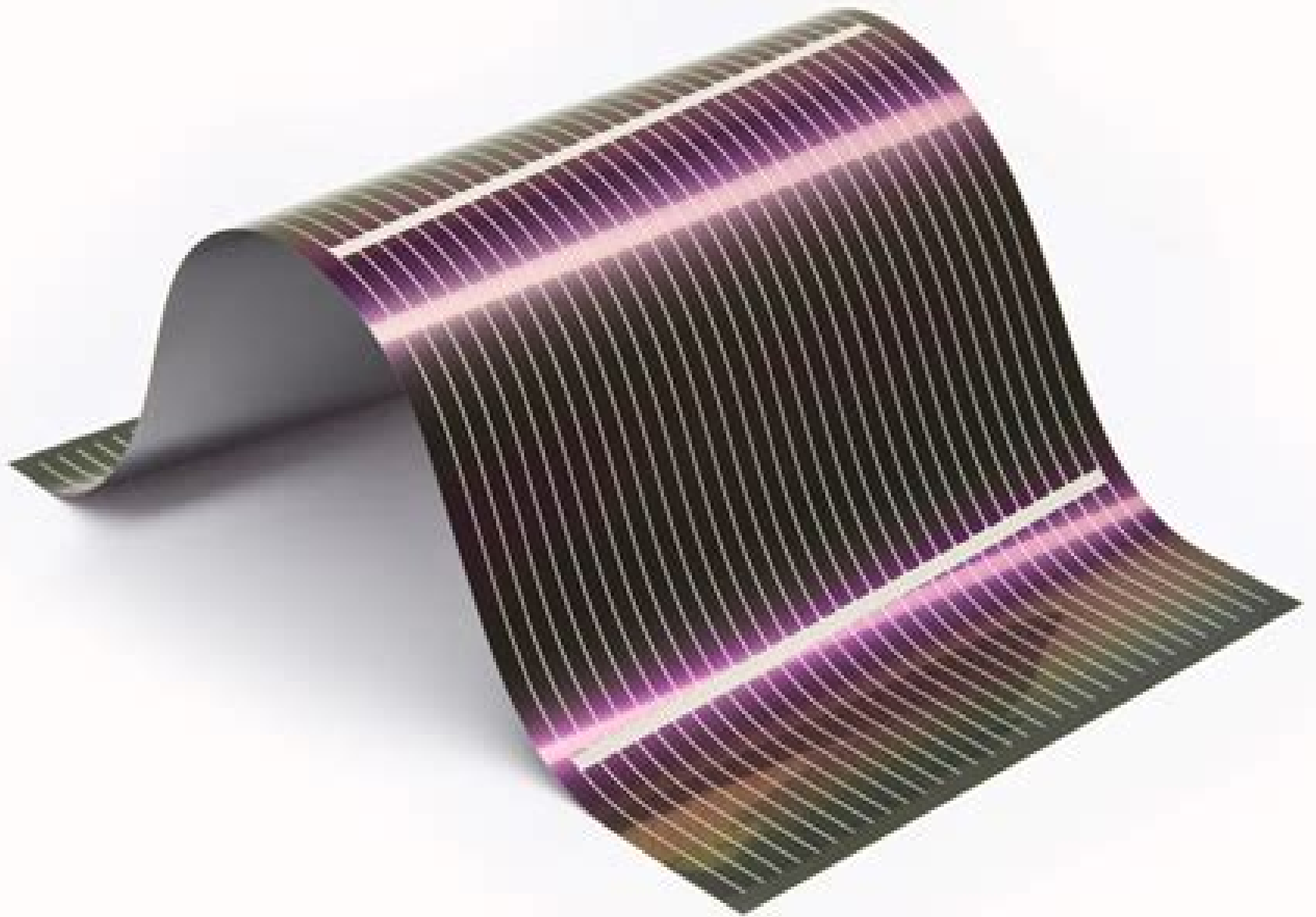




Thin Film Silicon Solar Cells Thin Film Silicon Solar Cells

K. L. Chopra, S. R. Das



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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

Thin Film Silicon Solar Cells Martin A. Green, 1996 *Thin Film Solar Cells* Jef Poortmans, Vladimir Arkhipov, 2006-10-02 Thin film solar cells are either emerging or about to emerge from the research laboratory to become commercially available devices finding practical various applications Currently no textbook outlining the basic theoretical background methods of fabrication and applications currently exist Thus this book aims to present for the first time an in depth overview of this topic covering a broad range of thin film solar cell technologies including both organic and inorganic materials presented in a systematic fashion by the scientific leaders in the respective domains It covers a broad range of related topics from physical principles to design fabrication characterization and applications of novel photovoltaic devices *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 *Thin-film Silicon Solar Cells: A Review and Selected Trends*,

High Efficiency Thin-film Silicon Solar Cells Guang Fu Zheng, 1996 **Thin-film silicon solar cells** Christophe Ballif, 2010 **Thin-Film Crystalline Silicon Solar Cells** Rolf Brendel, 2011-02-15 This introduction to the physics of

silicon solar cells focuses on thin cells while reviewing and discussing the current status of the important technology An analysis of the spectral quantum efficiency of thin solar cells is given as well as a full set of analytical models This is the first comprehensive treatment of light trapping techniques for the enhancement of the optical absorption in thin silicon films

Amorphous and Microcrystalline Silicon Solar Cells: Modeling, Materials and Device Technology Ruud E.I. Schropp, Miro Zeman, 2014-02-23 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 Solar Cells Yoshihiro Hamakawa, 2003-10-23 The first comprehensive book on thin film solar cells potentially a key technology for solving the energy production problem in the 21st century in an environmentally friendly way It covers a wide range of scientific and technological aspects of thin film semiconductors deposition technologies growth mechanisms and the basic properties of amorphous and nanocrystalline silicon as well as the optimum design theory and device physics of high efficiency solar cells especially of single junction and multijunction solar cells The development of large area solar cell modules using single and multijunction solar cells is also considered Examples of recent photovoltaic systems are presented and analysed

Thin-film Silicon Solar Cells Xing Sheng, 2012 Thin film silicon solar cell is a promising technology for solar energy due to their low cost large scale manufacturability but one of the major challenges is to absorb light at infrared wavelengths where the absorption length is much larger than the active layer thickness This book overviews the state of the art light trapping technology for efficiency improvement in thin film Si solar cells we propose an all dielectric textured photonic crystal TPC as an effective light trapping scheme which integrates dielectric gratings and a distributed Bragg reflector DBR in the backside of thin film silicon We understand the operation principles for this design by using photonic band theories and electromagnetic wave simulations We also developed a self assembled method to fabricate the proposed photonic structures Finally we explored the fundamental performance limits for thin film Si solar cells

Thin Film Polycrystalline Silicon Solar Cells M. A. Green, 1992

Thin Film Solar Cells K. L. Chopra, S. R. Das, 2014-01-15

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

Optics in Thin-film Silicon Solar Cells with Periodic Surface Texture Rahul Dewan, 2011 For silicon based thin film solar cells photon management strategies such as efficient light incoupling and light trapping within the absorbing material are imperative for realizing efficient solar cells In this thesis the optical enhancements in microcrystalline thin film silicon solar cells with periodic surface texture were investigated Using Finite Difference Time Domain FDTD and Rigorous Coupled Wave Analysis RCWA algorithms the optical wave propagation in the solar cell structure was calculated by rigorously solving the Maxwells equations in two and three dimensions By studying the influence of the period and height of the surface texture the design of the structures were optimized to achieve higher short circuit currents and quantum efficiencies Enhancement of the short circuit current in the blue part of the spectrum wavelengths 300 500 nm is achieved for smaller periods of the texture P

Thin-film Silicon Solar Cells Xing Sheng (Ph. D.), 2012 The photovoltaic technology has been attracting widespread attention because of its effective energy harvest by directly converting solar energy into electricity Thin film silicon solar cells are believed to be a promising candidate for further scaled up production and cost reduction while maintaining the advantages of bulk silicon The efficiency of thin film Si solar cells critically depends on optical absorption in the silicon layer since silicon has low absorption coefficient in the red and near infrared IR wavelength ranges due to its indirect bandgap nature This thesis aims at understanding designing and fabricating novel photonic structures for efficiency enhancement in thin film Si solar cells We have explored a previously reported a photonic crystal PC based structure to improve light absorption in thin film Si solar cells The PC structure combines a dielectric grating layer and a distributed Bragg reflector DBR for effcient light scattering and reflection increasing light path length in the thin film cell We have understood the operation principles for this design by using photonic band theories and electromagnetic wave simulations we discover that this DBR with gratings exhibit unusual light trapping in a way different from metal reflectors and photonic crystals The light trapping effects for the DBR with and without reflector are numerically investigated The self assembled anodic aluminum oxide AAO technique is introduced to non lithographically fabricate the grating structure We adjust the AAO structural parameters by using different anodization voltages times and electrolytes Two step anodization is employed to obtain nearly hexagonal AAO pattern The interpore periods of the fabricated AAO are calculated by fast Fourier transform FFT analysis We have also demonstrated the fabrication of ordered patterns made of other materials like amorphous Si a Si and silver by using the AAO membrane as a deposition mask Numerical simulations predict that the fabricated AAO pattern exhibits light trapping performance comparable to the perfectly periodic grating layer We have implemented the light trapping concepts combining the self

assembled AAO layer and the DBR in the backside of crystalline Si wafers Photoconductivity measurements suggest that the light absorption is improved in the near IR spectral range near the band edge of Si Furthermore different types of thin film Si solar cells including a Si microcrystalline Si μ Si and micromorph Si solar cells are investigated For demonstration the designed structure is integrated into a 1.5 μ m thick μ c Si solar cell We use numerical simulations to obtain the optimal structure parameters for the grating and the DBR and then we fabricate the optimized structures using the AAO membrane as a template The prototype devices integrating our proposed backside structure yield a 21% improvement in efficiency This is further verified by quantum efficiency measurements which clearly indicate stronger light absorption in the red and near IR spectral ranges Lastly we have explored the fundamental light trapping limits for thin film Si solar cells in the wave optics regime We develop a deterministic method to optimize periodic textures for light trapping Deep and high index contrast textures exhibit strong anisotropic scattering that is outside the regime of validity of the Lambertian models commonly used to describe texture induced absorption enhancement for normal incidence In the weak absorption regime our optimized surface texture in two dimensions 2D enhances absorption by a factor of 2.7 π n considerably larger than the classical π n Lambertian result and exceeding by almost 50% a recent generalization of Lambertian model for periodic structures in finite spectral range Since the π n Lambertian limit still applies for isotropic incident light our optimization methodology can be thought of optimizing the angle enhancement tradeoff for periodic textures Based on a modified Shockley Queisser theory we conclude that it is possible to achieve more than 20% efficiency in a 1.5 μ m thick crystalline Si cell if advanced light trapping schemes can be realized *Photovoltaic Mechanisms in Polycrystalline Thin-film Silicon Solar Cells*, 1980

Physical Limitations to Crystalline Thin Film Silicon Solar Cells Rolf Brendel, 2002 **Optical Layers for Thin-film Silicon Solar Cells** Cuony Buehlmann, Peter Cuony, Christophe Ballif (Physicien), Matthieu Despeisse, 2011 *Light Management in Thin-film Silicon Solar Cells* Olindo Isabella, 2013

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