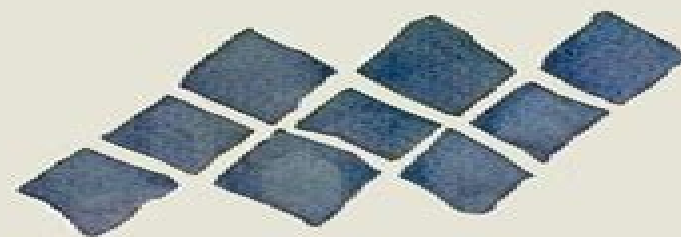




THE
PHYSICS OF
SOLAR CELLS

Jenny Nelson



Imperial College Press

The Physics Of Solar Cells Properties Of Semiconductor Materials

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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.

Handbook of the Physics of Thin-Film Solar Cells Karl W. Böer, 2014-04-23 This handbook is a compendium giving a comprehensive description of the basics of semiconductor physics relevant to the design and analysis of thin film solar cell materials. It starts from the basics of material science describing the material and its growth, defect and electrical properties, the basics of its interaction with photons and the involved statistics, proceeding to space charge effects in semiconductors and pn junctions. Most attention is given to analyze homo and hetero junction solar cells using various models and applying the field of direction analysis for discussing current voltage characteristics and helping to discover the involvement of high field effects in solar cells. The comprehensive coverage of the main topics of and relating to solar cells with extensive reference to literature helps scientists and engineers at all levels to reach a better understanding and improvement of solar cell properties and their production. The author is one of the founders of thin film solar cell research.

Semiconductor Photovoltaic Cells Chunfu Zhang, Jincheng Zhang, Xiaohua Ma, Qian Feng, 2021-02-25 This book explores the scientific basis of the photovoltaic effect, solar cell operation, various types of solar cells and the main process used in their manufacture. It addresses a range of topics including the production of solar silicon, silicon based solar cells and modules, the choice of semiconductor materials and their production, relevant costs and performance, device structures, processing and manufacturing options for the three major thin film PV technologies, high performance approaches for multi junction concentrator and space applications and new types of organic polymer and dye sensitized solar cells. The book also presents a concept for overcoming the efficiency limit of today's solar cells. Accessible for beginners while also providing detailed information on the physics and technology for experts, the book is a valuable resource for researchers, engineers and graduate students in fields such as physics, materials, energy, electrical and electronic engineering and microelectronics.

Solar Energy United States. Energy Research and Development Administration. Technical Information Center, 1976

Solar Cell Device Physics Stephen J. Fonash, 2012-12-02 Solar Cell Device Physics offers a balanced in depth qualitative and quantitative treatment of the physical principles and operating characteristics of solar cell devices. Topics covered include photovoltaic energy conversion and solar cell materials and structures along with homojunction solar cells. Semiconductor semiconductor heterojunction cells and surface barrier solar cells are also discussed. This book consists of six chapters and begins by introducing the reader to the basic physical principles and materials properties that are the

foundations of photovoltaic energy conversion with emphasis on various photovoltaic devices capable of efficiently converting solar energy into usable electrical energy. The electronic and optical properties of crystalline, polycrystalline, and amorphous materials with both organic and inorganic materials are considered together with the manner in which these properties change from one material class to another and the implications of such changes for photovoltaics. Generation recombination and bulk transport are also discussed. The two mechanisms of photocarrier collection in solar cells, drift and diffusion, are then compared. The remaining chapters focus on specific solar cell device classes defined in terms of the interface structure employed: homojunctions, semiconductor/semiconductor heterojunctions, and surface barrier devices. This monograph is appropriate for use as a textbook for graduate students in engineering and the sciences and for seniors in electrical engineering and applied physics as well as a reference book for those actively involved in solar cell research and development.

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.

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Photovoltaic Materials Richard H Bube,1998-05-30 Research and development of photovoltaic solar cells is playing an ever larger practical role in energy supply and ecological conservation all over the world Many materials science problems are encountered in understanding existing solar cells and the development of more efficient less costly and more stable cells This important and timely book provides a historical overview but concentrates primarily on exciting developments in the last decade It describes the properties of the materials that play an important role in photovoltaic applications the solar cell structures in which they are used and the experimental and theoretical developments that have led to the most promising contenders a Molecular Semiconductors J. Simon,J.-J. Andre,2012-12-06 During the past thirty years considerable efforts have been made to design the synthesis and the study of molecular semiconductors Molecular semiconductors and more generally molecular materials involve interactions between individual subunits which can be separately synthesized Organic and metallo organic derivatives are the basis of most of the molecular materials A survey of the literature on molecular semiconductors leaves one rather confused It does seem to be very difficult to correlate the molecular structure of these semiconductors with their experimental electrical properties For inorganic materials a simple definition delimits a fairly homogeneous family If an inorganic material has a conductivity intermediate between that of an 10^{-13} insulator 10^{-10} n cm and that of a metal 10^{-10} n cm then it is a semiconductor and will exhibit the characteristic properties of this family such as junction formation photoconductivity and the photovoltaic effect For molecular compounds such simplicity is certainly not the case A huge number of molecular and macromolecular systems have been described which possess an intermediate conductivity However the various attempts which have been made to rationalize their properties have more often than not failed Even very basic electrical properties such as the mechanism of the charge carrier formation or the nature and the density of the dopants are not known in detail The study of molecular semiconductor junctions is very probably the most powerful approach to shed light on these problems Scientific and Technical Aerospace Reports ,1982 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database *Solar Energy: Indexes* United States. Energy Research and Development Administration. Technical Information Center,1976 **The Physics of Solar Cells** Jenny Nelson,2003-01-01 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 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 **Energy Research Abstracts** ,1978-02 Physics Briefs ,1993 **Emerging Functional Materials: Advances in Energy and Environmental Applications** Alagarsamy Pandikumar,Nay Ming Huang,Hong Ngee Lim,2015-11-03 Special topic volume with invited peer reviewed papers only **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 Designed Experiments for Science and Engineering Michael D. Holloway,2024-12-19 Designed Experiments for Science and Engineering is a versatile and overarching toolkit that explores various methods of designing experiments for over 20 disciplines in science and engineering Designed experiments provide a structured approach to hypothesis testing data analysis and decision making They allow researchers and engineers to efficiently explore multiple factors interactions and their impact on outcomes ultimately leading to better designed processes products and systems across a wide range of scientific and engineering disciplines Each discipline covered in this book includes the key characteristics of the steps in choosing and executing the experimental designs one factor fractional factorial mixture experimentation factor central composite 3 factor central composite etc and reviews the various statistical tools used as well as the steps in how to utilize each standard deviation analysis analysis of variance ANOVA relative standard deviation bias analysis etc This book is essential reading for students and professionals who are involved in research and development within various fields in science and engineering such as mechanical engineering environmental science manufacturing and aerospace engineering **Boston College Environmental Affairs Law Review** Boston College. Law School,1981 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 hetero junction 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 **IETE Journal of Research** ,1997

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