

Peter Würfel and Uli Würfel

Physics of Solar Cells

From Basic Principles to Advanced Concepts
Third Edition



Physics Of Solar Cells From Basic Principles To Advanced Concepts

Santosh K. Kurinec



Physics Of Solar Cells From Basic Principles To Advanced Concepts:

Physics of Solar Cells Peter Würfel, Uli Würfel, 2016-09-13 The new edition of this highly regarded textbook provides a detailed overview of the most important characterization techniques for solar cells and a discussion of their advantages and disadvantages. It describes in detail all aspects of solar cell function, the physics behind every single step as well as all the issues to be considered when improving solar cells and their efficiency. The text is now complete with examples of how the appropriate characterization techniques enable the distinction between several potential limitation factors, describing how quantities that have been introduced theoretically in earlier chapters become experimentally accessible. With exercises after each chapter to reinforce the newly acquired knowledge and requiring no more than standard physics knowledge, this book enables students and professionals to understand the factors driving conversion efficiency and to apply this to their own solar cell development.

Physics of Solar Cells Peter Würfel, Uli Würfel, 2009 Physics of Solar Cells Peter Würfel, 2009-03-23

Based on the highly regarded and extremely successful first edition, this thoroughly revised, updated and expanded edition contains the latest knowledge on the mechanisms of solar energy conversion. The textbook describes in detail all aspects of solar cell function, the physics behind every single step as well as all the issues to be considered when improving solar cells and their efficiency. Requiring no more than standard physics knowledge, the book enables both students and researchers to understand the factors driving conversion efficiency and to apply this knowledge to their own solar cell development. New exercises after each chapter help students to consolidate their freshly acquired knowledge, while the book also serves as a reference for researchers already working in this exciting and challenging field.

Physics of Solar Cells Dr. Peter Würfel, Uli Würfel, 2009 **Physics of Solar Cells** Peter Würfel, 2009 **Advanced Concepts in Photovoltaics** Arthur J.

Nozik, Gavin Conibeer, Matthew C Beard, 2014-07-10 Photovoltaic systems enable the sun's energy to be converted directly into electricity using semiconductor solar cells. The ultimate goal of photovoltaic research and development is to reduce the cost of solar power to reach or even become lower than the cost of electricity generated from fossil and nuclear fuels. The power conversion efficiency and the cost per unit area of the photovoltaic system are critical factors that determine the cost of photovoltaic electricity. Until recently, the power conversion efficiency of single junction photovoltaic cells has been limited to approximately 33%, the so-called Shockley-Queisser limit. This book presents the latest developments in photovoltaics which seek to either reach or surpass the Shockley-Queisser limit and to lower the cell cost per unit area. Progress toward this ultimate goal is presented for the three generations of photovoltaic cells: the 1st generation based on crystalline silicon semiconductors, the 2nd generation based on thin film silicon compound semiconductors, amorphous silicon and various mesoscopic structures, and the 3rd generation based on the unique properties of nanoscale materials, new inorganic and organic photoconversion materials, highly efficient multi-junction cells with low cost solar concentration and novel photovoltaic processes. The extent to which photovoltaic materials and processes can meet the expectations of efficient and

cost effective solar energy conversion to electricity is discussed Written by an international team of expert contributors and with researchers in academia national research laboratories and industry in mind this book is a comprehensive guide to recent progress in photovoltaics and essential for any library or laboratory in the field *The Physics of Semiconductor Devices* Rajendra Singh, Madhusudan Singh, Ashok Kapoor, 2024-05-30 This book includes proceedings of the 21st International Workshop on Physics of Semiconductor Devices The workshop is jointly organized by the Indian Institute of Technology Delhi and Solid State Physics Laboratory Delhi in collaboration with the Society for Semiconductor Devices and Semiconductor Society of India This book disseminates the current knowledge of semiconductor physics and its applications across the scientific community It is based on a biennial workshop that provides the participating research groups with a stimulating platform for interaction and collaboration with colleagues from the same scientific community The book discusses the latest developments in III nitrides materials and devices compound semiconductors VLSI technology optoelectronics sensors photovoltaics crystal growth epitaxy and characterization graphene and other 2D materials and organic semiconductors The research articles included in this book are contributed by various eminent scientists from all over the world The book serves as a reference resource for researchers and practitioners in academia and industry **Physics of Energy Conversion** Katharina Krischer, Konrad Schönleber, 2015-05-19 A profound understanding of the physical laws underlying energy converters is a prerequisite for a sustainable use of our energy resources The aim of this textbook is to provide a unified view on the different energy conversion processes ranging from power plants to solar cells It offers an interdisciplinary introduction to energy sciences for senior undergraduate and graduate students from natural sciences and engineering The central theme is the treatment of energy converters as open thermodynamical systems and the performance of efficiency analyses based on the concept of exergy Presents the physics behind the most important energy converters in a unified framework Evaluates the performance of ideal and realistic energy converters in terms of energy and exergy efficiencies Provides basic concepts needed for a discussion of energy converters such as chemical and applied thermodynamics electrochemistry and solid state physics About the Authors Katharina Krischer is a professor of physics at the Technische Universität München Germany She has taught lectures on energy sciences for undergraduate and graduate students for more than 10 years Her research topics include the photo electrochemical production of solar fuels Konrad Schönleber is a researcher in the group of Prof Krischer which he joined after graduating in physics from the Technische Universität München His research interest focuses on light driven semiconductor electrochemistry and its application for renewable energies **Nanostructured Materials for Type III Photovoltaics** Peter Skabara, Mohammad Azad Malik, 2017-11-08 Materials for type III solar cells have branched into a series of generic groups These include organic small molecule and polymer conjugated structures fullerenes quantum dots copper indium gallium selenide nanocrystal films dyes TiO₂ for Grätzel cells hybrid organic inorganic composites and perovskites Whilst the power conversion efficiencies of

organic solar cells are modest compared to other type III photovoltaic materials plastic semiconductors provide a cheap route to manufacture through solution processing and offer flexible devices However other types of materials are proving to be compatible with this type of processing whilst providing higher device efficiencies As a result the field is experiencing healthy competition between technologies that is pushing progress at a fast rate In particular perovskite solar cells have emerged very recently as a highly disruptive technology with power conversion efficiencies now over 20% Perovskite cells however still have to address stability and environmental issues With such a diverse range of materials it is timely to capture the different technologies into a single volume of work This book will give a collective insight into the different roles that nanostructured materials play in type III solar cells This will be an essential text for those working with any of the devices highlighted above providing a fundamental understanding and appreciation of the potential and challenges associated with each of these technologies

Emerging Photovoltaic Materials Santosh K. Kurinec, 2018-11-30 This book covers the recent advances in photovoltaics materials and their innovative applications 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 the exciting developments in the last decade It includes organic and perovskite solar cells photovoltaics in ferroelectric materials organic inorganic hybrid perovskite materials with improved photovoltaic efficiencies as well as 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

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