PH'YSICS TEXTBOOK

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WILEY-VCH

Physics of Solar Cells

From Basic Principles to Advanced Concepts

Second, Updated and Expanded Edition

Physics of Solar Cells: From Basic Principles to Advanced Concepts, , John Wiley & Sons, 2009, 3527408576, 9783527408573, 244 pages. 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..

Solar cells , European Committee on Space Environment Co-operation, Centre national d'Ð“Â©tudes spatiales (France), Centre d'Ð“Â©tudes et de recherches de Toulouse. DÐ“Â©partment d'Ð“Â©tudes et de recherches en technologie spatiale, 1971, Technology & Engineering, 680 pages. .

Polymeric Solar Cells Materials, Design, Manufacture, Frederik C. Krebs, 2010, Science, 229 pages. Book offers a comprehensive treatment of nonhybrid polymeric solar cells from the basic chemistry of donor and acceptor materials through device design, processing and ....

Thin-film Silicon Solar Cells , Arvind Shah, 2010, Science, 430 pages. 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 ....

Optoelectronics of Solar Cells , Greg P. Smestad, 2002, Technology & Engineering, 99 pages. With concerns about worldwide environmental security, global warming, and climate change due to emissions of carbon dioxide from the burning of fossil fuels, it is desirable to ....

High Efficiency Silicon Solar Cells , Martin A. Green, 1987, Science, 240 pages. .

An introduction to the theory and practice of semiconductors , Alan A. Shepherd, 1958, Technology & Engineering, 206 pages. .

Practical photovoltaics electricity from solar cells, Richard J. Komp, Jun 1, 1995, Technology & Engineering, 197 pages. Indhold: Solar cells: What they are and how they work ; How solar cells are made ; Solar cells and modules ; Using photovoltaics ; Batteries and other storage systems ; New ....

Solar cells , Charles E. Backus, 1976, Technology & Engineering, 504 pages. .

Computational Electronics , Dragica Vasileska, Stephen Marshall Goodnick, Stephen Goodnick, Jan 1, 2006, Science, 208 pages. Computational electronics refers to the physical simulation of semiconductor devices in terms of charge transport and the corresponding electrical behavior. It is related to ....

Design, Experiment, and Analysis of a Photovoltaic Absorbing Medium with Intermediate Levels , Michael Y. Levy, 2008, , 168 pages. The absorption of the sun's radiation and its efficient conversion to useful work by a photovoltaic solar cell is of interest to the community at large. Scientists and ....

Solar Photovoltaics: Fundamentals Technologies And Applications , Solanki, 2009, Photovoltaic cells, 478 pages. "This up-to-date text discusses all the aspects of Solar Photovoltaic (PV) technologies from physics of solar cells to manufacturing technologies, solar PV system design and ....

Solar Electricity Engineering of Photovoltaic Systems, Eduardo Lorenzo, Jan 1, 1994, Technology &

Engineering, 316 pages. Photovoltaic engineering is of an interdisciplinary nature. The engineer needs accurate knowledge from several fields -- semiconductor devices, materials, solar radiation ....

Photoelectronic Properties of Semiconductors , Richard H. Bube, May 14, 1992, Technology & Engineering, 318 pages. This book examines the fundamental physics underlying the rich complexity of photoelectronic properties of semiconductors, and discusses the models that are useful in ....

The Physics of Solar Cells , J. Nelson, 2003, Technology & Engineering, 363 pages. 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 ....

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