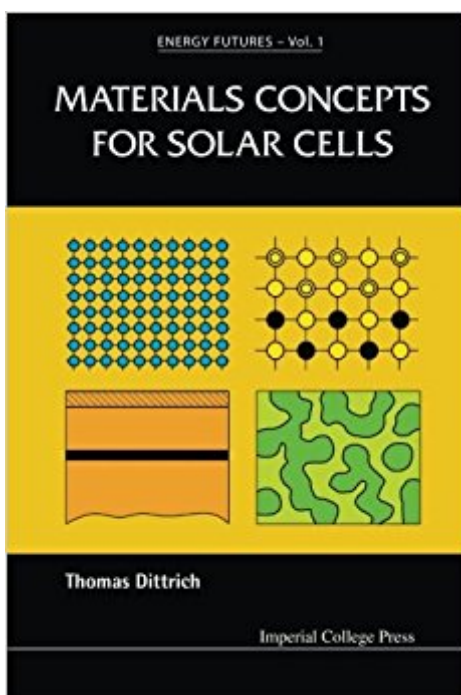


The book was found

# Materials Concepts For Solar Cells (Energy Futures)



## Synopsis

"The book offers a well-balanced treatment of physical principles and materials-related concepts of solar cells, and considers both classical and new trends in this rapidly developing field . . . The book is perfectly structured, with a concise summary of the most important points provided for every chapter, and the description of the concepts well complemented by the tasks. I strongly recommend this book for students and scientists attracted to the renewable energy and the materials science fields." Andrey Rogach Chair Professor of Photonic Materials City University of Hong Kong

• The book is of good pedagogical value. Students as well as teachers can make use of this either as a main textbook or as a support for their lessons. In general, the book is well-written and provides a solid basis for studying solar cells.

• Mrs Bulletin This textbook bridges the gap between basic literature on the physics of solar cells and highly specialized books about photovoltaic solar energy conversion. It is intended to give students with a background in engineering, materials science, chemistry or physics a comprehensive introduction to materials concepts for solar cells. To this end, general principles of solar cells and materials demands are explained in the first part of this book. The second part is devoted to the four classes of materials concepts for solar cells: solar cells based on crystals of silicon, epitaxial layer systems of Iii-V semiconductors, thin-film absorbers on foreign substrates, and nano-composite absorbers.

## Book Information

Series: Energy Futures (Book 1)

Paperback: 552 pages

Publisher: Imperial College Press (November 5, 2014)

Language: English

ISBN-10: 1783264454

ISBN-13: 978-1783264452

Product Dimensions: 6 x 1.2 x 9 inches

Shipping Weight: 1.8 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #567,803 in Books (See Top 100 in Books) #95 in Books > Science & Math > Technology > Nanotechnology #96 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Semiconductors #122 in Books > Engineering & Transportation > Automotive > Repair & Maintenance > Testing & Certification

## Customer Reviews

This textbook bridges the gap between basic literature on the physics of solar cells and highly specialized books about photovoltaic solar energy conversion. It is intended to give students with a background in engineering, materials science, chemistry or physics a comprehensive introduction to materials concepts for solar cells. To this end, general principles of solar cells and materials demands are explained in the first part of this book. The second part is devoted to the four classes of materials concepts for solar cells: solar cells based on crystals of silicon, epitaxial layer systems of III-V semiconductors, thin-film absorbers on foreign substrates, and nano-composite absorbers.

[Download to continue reading...](#)

Materials Concepts for Solar Cells (Energy Futures) Solar Power: The Ultimate Guide to Solar Power Energy and Lower Bills: (Off Grid Solar Power Systems, Home Solar Power System) (Living Off Grid, Wind And Solar Power Systems) Solar Energy for Beginners: The Complete Guide to Solar Power Systems, Panels & Cells Solar Electricity Handbook: 2017 Edition: A simple, practical guide to solar energy ? designing and installing solar photovoltaic systems. Solar Electricity Handbook - 2015 Edition: A simple, practical guide to solar energy - designing and installing solar PV systems. Solar Electricity Handbook - 2013 Edition: A Simple Practical Guide to Solar Energy - Designing and Installing Photovoltaic Solar Electric Systems Solar Electricity Handbook - 2014 Edition: A Simple Practical Guide to Solar Energy - Designing and Installing Photovoltaic Solar Electric Systems Solar Electricity Handbook - 2012 Edition: A Simple Practical Guide to Solar Energy - Designing and Installing Photovoltaic Solar Electric Systems Solar Cooking: Different Types of Solar Cookers: The Pros and Cons of Different Types of Solar Cookers and What Will Work Best For You DIY: How to make solar cell panels easily with no experience!: Master Making Solar Panels Faster! (Master Solar Faster Book 1) Renewable Energy Made Easy: Free Energy from Solar, Wind, Hydropower, and Other Alternative Energy Sources Energy Harvesting: Solar, Wind, and Ocean Energy Conversion Systems (Energy, Power Electronics, and Machines) Enjoy Your Cells (Enjoy Your Cells Series Book 1) Off-Grid Living: How To Build Wind Turbine, Solar Panels And Micro Hydroelectric Generator To Power Up Your House: (Wind Power, Hydropower, Solar Energy, Power Generation) Solar PV Off-Grid Power: How to Build Solar PV Energy Systems for Stand Alone LED Lighting, Cameras, Electronics, Communication, and Remote Site Home Power Systems The Passive Solar Energy Book: A Complete Guide to Passive Solar Home, Greenhouse and Building Design Reiki: The Healing Energy of Reiki - Beginner's Guide for Reiki Energy and Spiritual Healing: Reiki: Easy and Simple Energy Healing Techniques Using the ... Energy Healing for Beginners Book 1) Semiconductors for Solar Cells (Artech House Optoelectronics Library) The Homeowner's Guide to Renewable Energy: Achieving Energy

Independence Through Solar, Wind, Biomass, and Hydropower The Homeowner's Guide to Renewable Energy: Achieving Energy Independence through Solar, Wind, Biomass and Hydropower (Mother Earth News Wiser Living)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)