



# Solar Photovoltaic Cells: Photons to Electricity

*Alexander P. Kirk*

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## **Solar Photovoltaic Cells: Photons to Electricity** Alexander P. Kirk

Solar Photovoltaic Cells: Photons to Electricity outlines our need for photovoltaics - a field which is exploding in popularity and importance. This concise book provides a thorough understanding of solar photovoltaic cells including how these devices work, what can be done to optimize the technology, and future trends in the marketplace. This book contains a detailed and logical step-by-step explanation of thermodynamically-consistent solar cell operating physics, a comparison of advanced multi-junction CPV power plants versus combined-cycle thermal power plants in the framework of energy cascading, and a discussion of solar cell semiconductor resource limitations and the scalability of solar electricity as we move forward. Quantitative examples allow the reader to understand the scope of solar PV and the challenges and opportunities of producing clean electricity.

- Provides a compact and focused discussion of solar photovoltaics and solar electricity generation.
- Helps you understand the limits of solar PV and be able to predict future trends.
- Quantitative examples help you grasp the scope of solar PV and the challenges and opportunities of producing electricity from a renewable resource.

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