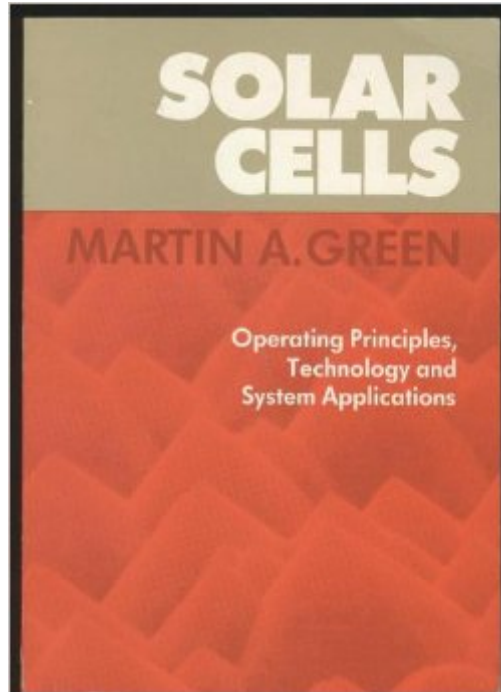


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# Solar Cells : Operating Principles, Technology And System Applications



## Synopsis

The book primarily focuses on single junction silicon devices, but some of the III-V semiconductors are also described. Mostly the physics of solar cells is covered, but there is some info on practical installation issues.

## Book Information

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## Customer Reviews

tHIS BOOK CAN BE PURCHASED BY WRITING TO THE AUTHOR Martin A Green, Elec.Eng. UNSW. Sydney, Australia 2052 or check the Web Site [...] A second edition will be available from the same address from late 1999.

Though the technology described in this book is a little dated, the operating principles have not changed. And Dr. Green does a wonderful job of describing the basic physics of how a solar cell works. There is hardly a word wasted. He tells you what you need to know in a fashion which is both intuitive and mathematical, without fancy embellishments on second or third order effects. The book primarily focuses on single junction silicon devices, but some of the III-V semiconductors are also described. Mostly the physics of solar cells is covered, but there is some info on practical installation issues. For the physics stuff, you need a good background in math (differential and integral calculus) and maybe some basic understanding of quantum mechanics and electrical engineering. I would say that most science or engineering undergraduates at a sophomore level or higher will be able to read this book, as will others with a decent tech/math background. I read the books by Nelson (The Physics of Solar Cells) and Wurfel (Physics of Solar Cells: From Basic Principles to Advanced Concepts). Both are decent books, but neither comes close to the clarity that Green's

book has. Make this your first book. People in the industry will tell you that this is simply the best book to start with if you want to learn the physics of what's going on in a solar cell. After reading it, I agree. The previous reviewer is right that you can purchase the paperback 1986 edition of this book (new) from the University of New South Wales bookshop at: [...]. Just browse to the bookstore via the Research then Publications link, and you will find it. As of 27 Oct 2011 the cost is \$44, with \$28 shipping charge (Australian dollars?). Not a bad price for such a great book. Wish they would offer it on at a decent price.

Martin Green is a pioneer in the photovoltaics world. This book is a staple in any PV lab or for anyone interested in the physics of solar cells.

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