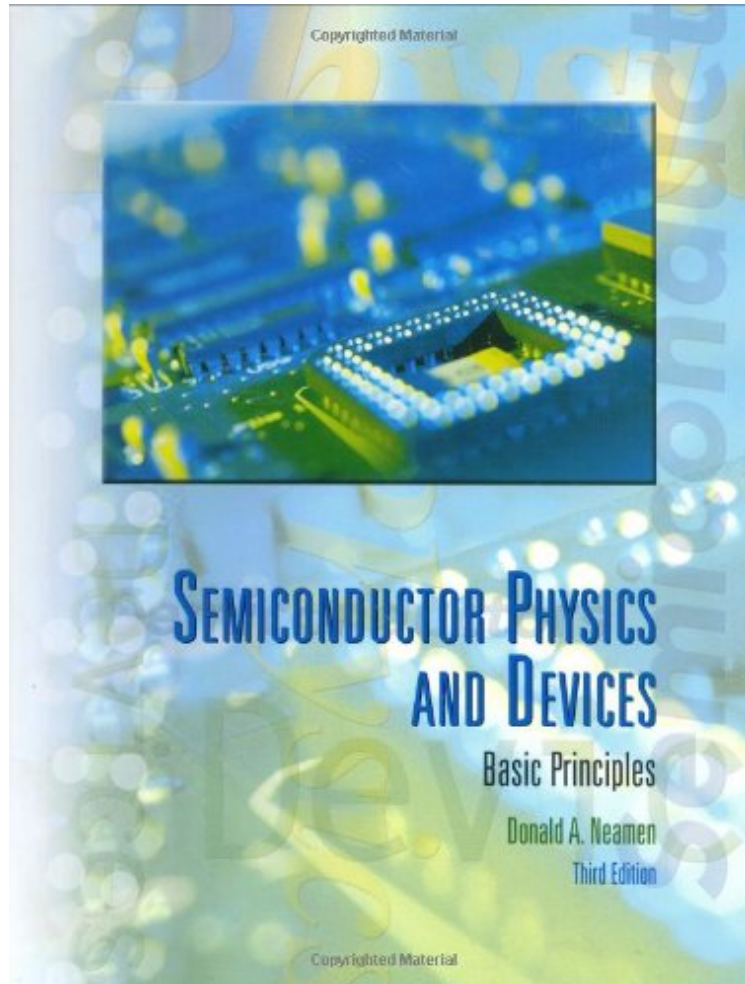


# Semiconductor Physics And Devices

*Donald Neamen*

*DOC | \*audiobook | ebooks | Download PDF | ePub*



[Download](#)

[Read Online](#)

#700856 in Books 2002-08-22 Ingredients: Example Ingredients Original language: English PDF # 1 9.40 x 1.32 x 8.30l, 2.93 #File Name: 0072321075768 pages | File size: 76.Mb

**Donald Neamen : Semiconductor Physics And Devices** before purchasing it in order to gage whether or not it would be worth my time, and all praised Semiconductor Physics And Devices:

1 of 1 people found the following review helpful. It's not called "Basic Principles" for nothing By Jordan E. There are two ways to teach semiconductor physics. The first is to start from first principles (as much as is possible) of quantum mechanics, statistical mechanics, etc., and derive for the reader the basic relationships and equations that the rest of the text relies on. The second is to gloss over the underlying fundamentals and move straight into practical applications. This author takes the first approach, and his text smells more of mathematical formalism than engineering. If that works for you, then fantastic, but fortunately the text does not lean too heavily on the reader having such a background, as most of the material can be learned with just the results the author derives. 5 of 5 people found the following review helpful. Good Book By Mr. SI'm currently using this book for a class in solid state electronics and I

feel this covers the topics very well. There are lots of examples throughout the book with problems given right after them, which are similar to the examples. I really liked this because I felt that it gives readers an opportunity to practice and understand the material better as they read through it. So far we have found one mistake in one of the problems, but its just a typo and its easy to figure out what's meant. I've heard that the previous editions had several mistakes that have been corrected in this one, the 4th edition, so if you can afford it, you might want to consider getting this one. I haven't read the whole book, and don't intent to, but from what I've read so far, I've felt that everything was clear and flowed well. There are derivations given for most of the formulas used in the book. I usually skip over them, but if you'd like to study them, they're there.0 of 0 people found the following review helpful. Four StarsBy JBToo advanced for me. I have no electronics background

Neamen's Semiconductor Physics and Devices, Third Edition. deals with the electrical properties and characteristics of semiconductor materials and devices. The goal of this book is to bring together quantum mechanics, the quantum theory of solids, semiconductor material physics, and semiconductor device physics in a clear and understandable way.