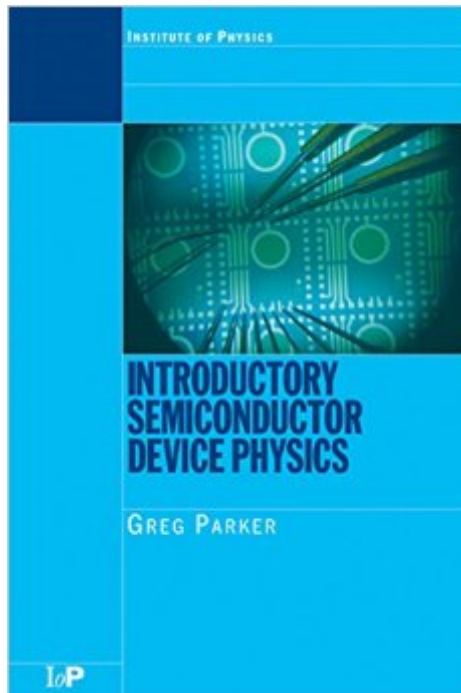


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# Introductory Semiconductor Device Physics



## Synopsis

Introduction to Semiconductor Device Physics is a popular and established text that offers a thorough introduction to the underlying physics of semiconductor devices. It begins with a review of basic solid state physics, then goes on to describe the properties of semiconductors including energy bands, the concept of effective mass, carrier concentration, and conduction in more detail. Thereafter the book is concerned with the principles of operation of specific devices, beginning with the Gunn Diode and the p-n junction. The remaining chapters cover the on specific devices, including the LED, the bipolar transistor, the field-effect transistor, and the semiconductor laser. The book concludes with a chapter providing a brief introduction to quantum theory. Not overtly mathematical, Introduction to Semiconductor Device Physics introduces only those physical concepts required for an understanding of the semiconductor devices being considered. The author's intuitive style, coupled with an extensive set of worked problems, make this the ideal introductory text for those concerned with understanding electrical and electronic engineering, applied physics, and related subjects.

## Book Information

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## Customer Reviews

I actually enjoyed this. The Electrical Engineering textbook that our Professor recommended was really too much work to understand. Parker states his ideas in a clear, yet (somewhat) informal/conversational way. I would personally get more out of this book if there were a couple of unsolved numeral problems included at the end of each chapter, but that's probably because I'm too cheap to buy the actual \$300 professor-recommended textbook. In short, it's a great reference book for a college student taking an intro to semiconductor/solid-state physics.

analysis is good but not like streetman..but i feel in many ways it is a very beautiful book.. ! It gives a good understanding of the subject..

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