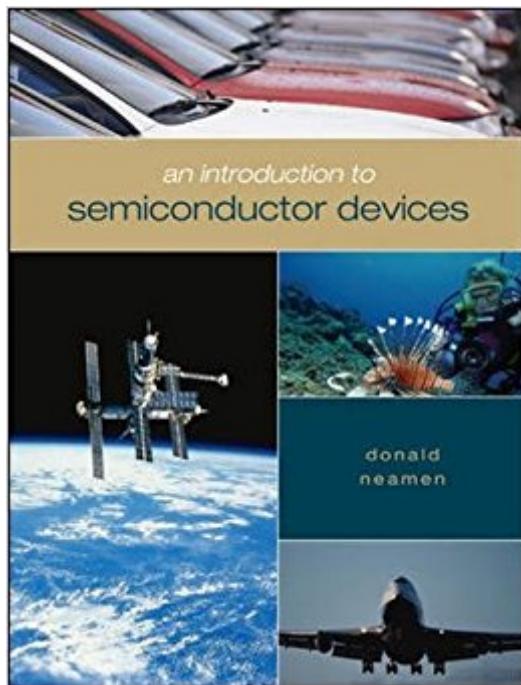


The book was found

An Introduction To Semiconductor Devices



Synopsis

An Introduction to Semiconductor Devices by Donald Neamen provides an understanding of the characteristics, operations and limitations of semiconductor devices. In order to provide this understanding, the book brings together the fundamental physics of the semiconductor material and the semiconductor device physics. This new text provides an accessible and modern presentation of material. Quantum mechanic material is minimal, and the most advanced material is designated with an icon. This modern approach means that coverage of the MOS transistor precedes the material on the bipolar transistor, which reflects the dominance of MOS technology in today's world. Excellent pedagogy is present throughout the book in the form of interesting chapters openers, worked examples, a variety of exercises, key terms, and end of chapter problems.

Book Information

Hardcover: 704 pages

Publisher: McGraw-Hill Education (January 6, 2005)

Language: English

ISBN-10: 0072987561

ISBN-13: 978-0072987560

Product Dimensions: 8.4 x 1.3 x 9.2 inches

Shipping Weight: 2.7 pounds (View shipping rates and policies)

Average Customer Review: 3.2 out of 5 stars 8 customer reviews

Best Sellers Rank: #243,544 in Books (See Top 100 in Books) #12 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Solid State #45 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Semiconductors #63322 in Books > Textbooks

Customer Reviews

Pretty good book, but it seemed to lack some detail/understanding that I really wanted as a senior/1st year graduate class in electrical engineering. I felt like I would search for answers to specific questions, just to have to go elsewhere to find it. However, I have been told, multiple times, that it is one of the best out there, so keep that in mind.

Great book for my course on semiconductors.

The book is very helpful for any material related to Electron devices or semiconductor devices

One of the best books on the elementary knowledge on semiconductor physics. Every basic thing is covered. Worth paying for it. Everything is awesome!

Some parts of the book were easy to understand but some where sloppy. I found myself using Google to help with homework

This book is as droll as they come. Not a good read and apparently useless for Sandip Das' Semiconductor Devices class at SPSU.

I purposely spent more money to have a new book and this book is not new at all. Corners are worn, pages are folded, and the covers are faded and scratched. The only reason im being anal about this is because I spent the extra to have it new. Do not trust this seller's claimed conditions.

I saw the terrible reviews but bought the book regardless. I should've taken heed of the warnings. The very first homework assignment sheds light on the issues. Specifically, problem 2.3 at the end of chapter 2. They give you an equation, the average energy of an electron in an electron gas = $3kT/2$. Then they give you $T = 300$ K. And then they ask what the average energy is. Easy right? You have $3k(300)/2$, but what is k you ask? "A constant, surely!" So you flip back through chapter two to find any constants k. Nothing. No where. No tables or any information. Logically, I hop on the Google and search "physics constant k" and it returns Coulomb's constant k. "Awesome!" I remembered that from the previous two physics courses and a circuits analysis course!" Turns out, that didn't return the right answer. Further searching, I discovered it something more obscure, Boltzmann constant k (Yeah! They share the same k!!!!) Which is the difference between two other CONSTANTS. In the books defense, perhaps you were supposed to be taught Boltzmann's constant in place of Coulomb's constant. A wikipedia page on the Boltzmann constant saved me. Final Word: BEWARE!!! This book may assume you have previous knowledge of various constants taught in previous courses, which may not be true for you. Otherwise, the book doesn't mention any tables of various possible constants.

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

Semiconductor Physics and Applications (Series on Semiconductor Science and Technology) An Introduction to Semiconductor Devices Understanding Semiconductor Devices (The Oxford Series in Electrical and Computer Engineering) Semiconductor Power Devices: Physics, Characteristics,

Reliability Semiconductor Devices for High-Speed Optoelectronics Semiconductor Physics And Devices: Basic Principles Principles of Semiconductor Devices (The Oxford Series in Electrical and Computer Engineering) Semiconductor Physics And Devices Semiconductor Physics and Devices International Edition Microwave Noise in Semiconductor Devices Semiconductor Devices: Physics and Technology Physics of Semiconductor Devices Semiconductor Laser Engineering, Reliability and Diagnostics: A Practical Approach to High Power and Single Mode Devices Semiconductor Devices Silicon Carbide Biotechnology, Second Edition: A Biocompatible Semiconductor for Advanced Biomedical Devices and Applications US Army Technical Manual, ARMY DATA SHEETS FOR CARTRIDGES, CARTRIDGE ACTUATED DEVICES AND PROPELLANT ACTUATED DEVICES, FSC 1377, TM 43-0001-39, 1991 Integrated circuit devices and components (Integrated-circuit technology, analog and logic circuit design, memory and display devices) ISO 14971:2007, Medical devices - Application of risk management to medical devices ISO 14971:2000, Medical devices -- Application of risk management to medical devices Prostheses: Design, Types, and Complications (Biomedical Devices and Their Applications; Medical Devices and Equipment)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)