

# Semiconductor Physics And Devices Basic Principles

## 4th Edition Pdf

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this introductory text designed for the first course in semiconductor physics presents a well balanced coverage of semiconductor physics and device operation and shows how devices are optimized for applications the text begins with an exploration of the basic physical processes upon which all semiconductor devices diodes transistor light emitters and detectors are based topics such as bandstructure effective masses holes doping carrier transport and lifetimes are discussed next the author focuses on the operation of the important semiconductor devices along with issues relating to the optimization of device performance issues such as how doping device dimensions and parasitic effects influence device operation are also included the book

is appropriate for the following courses device physics semiconductor devices device electronics physics of semiconductor devices integrated circuit devices device electronics solid state devices

semiconductor physics and devices basic principles second edition provides the fundamentals necessary to understand semiconductor device characteristics operations and limitations neamen s book reveals the fundamentals by establishing for the student a sound understanding of quantum mechanics and an introduction to the quantum theory of solids this background permits the student to develop a deeper understanding of how essential physics semiconductor material physics and semiconductor device physics interrelate espousing neither the intuitive approach of many textbooks nor the highly technical characteristics of handbooks semiconductor physics and devices basic principles provides students with a resource that is engaging and understandable and instructors with a textbook that offers teachability without sacrificing technical exactitude

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