

Semiconductor Physics And Devices Donald A Neamen

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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

with its strong pedagogy superior readability and thorough examination of the physics of semiconductor material semiconductor physics and devices 4 e provides a basis for understanding the characteristics operation and limitations of semiconductor devices neamen s semiconductor physics and devices 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

semiconductor physics and devices brings together the fundamental physics semiconductor material physics and semiconductor device physics required to understand semiconductor device characteristics operation and limitations it covers the three basic types of transistors bipolar jfet and mosfet and includes discussions about processing techniques such as diffusion and ion implantation the book features important learning tools such as chapter preview sections chapter summary and review sections extensive examples chapter glossaries many problems chapter reading lists and an appendix with answers to selected problems

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