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Principles of Semiconductor Devices. This free online engineering textbook was written by Bart Van Zeghbroeck of the University of Colorado at Boulder. I'll leave it to professor Van Zeghbroeck to explain the goals of his text - "to explore the internal behavior of semiconductor devices, so that we can understand the relation between the device geometry and material parameters on one hand and the resulting electrical characteristics on the other hand ...

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Welcome to my textbook, "Principles of Semiconductor Devices". The goal of this text is to provide the basic principles of common semiconductor devices, with a special focus on Metal-Oxide-Semiconductor Field-Effect-Transistors (MOSFETs). A browser environment was chosen so that text, figures and equations can be linked for easy reference.

Principles of Semiconductor Devices

Principles of Semiconductor Devices. Quantum mechanical phenomena-including energy bands, energy gaps, holes, and effective mass-constitute the majority of properties unique to semiconductor materials.

Principles of Semiconductor Devices by Sima Dimitrijevic

Principles of Semiconductor Devices The Primary Focus: The MOSFET and CMOS Integrated Circuits The Metal-Oxide-Silicon Field-Effect-Transistor (MOSFET) is the main subject of this text, since it is already the prevailing device in microprocessors and memory circuits.

Integrated Circuits and Discrete Devices

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