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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.

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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

Designed for upper-level undergraduate and graduate courses, Principles of Semiconductor Devices, Second Edition, presents the semiconductor-physics and device principles in a way that upgrades classical semiconductor theory and enables proper interpretations of numerous quantum effects in modern devices.

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