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Animation | How a P N junction semiconductor works | forward reverse bias | diffusion drift current

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Principles of Semiconductor Devices (The Oxford Series in ... Principles of Semiconductor Devices. Second Edition. Sima Dimitrijevic The Oxford Series in Electrical and Computer Engineering. Comprehensive (solid introduction to semiconductor physics, broad range of devices, SPICE models, overview of technologies) Modern (solid link between physics and SPICE models, emphasis on MOS devices, overview of nanoscale phenomena and devices)

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reliability and low cost' 'Semiconductor And Integrated Circuit Devices

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## 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.

Understanding how these properties affect the electrical characteristics of semiconductors is vital for engineers working with today's nanoscale devices.

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The author has divided the text into four parts. Part I explains semiconductor physics, and Part II presents the principles of operation and modeling of the fundamental junctions and transistors. Part III discusses the diode, MOSFET, and BJT topics that are needed for circuit design. Part IV introduces photonic devices, microwave FETs, negative-resistance diodes, and power devices. The chapters and the sections in each chapter are organized hierarchically.

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