

Principles Of Semiconductor Devices And Heterojunctions By Bart Van Zeghbroeck

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Purpose and Goal of the Text The purpose of this text is 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.

Principles of Semiconductor Devices

Principles of Semiconductor Devices. 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,...

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Principles of Semiconductor Devices. The semiconductor theory is directly linked to the electronic layout and design of integrated circuits. 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.

Principles of Semiconductor 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. The semiconductor theory is directly linked to practical applications, including the links to the SPICE models and parameters that are commonly used during circuit design.

Principles of Semiconductor Devices

Principles of Semiconductor Devices L Length m Ln Electron diffusion length m Lp Hole diffusion length m m Mass kg m0 Free electron mass kg me* Effective mass of electrons kg mh* Effective mass of holes kg n Electron density m-3 ni Intrinsic carrier density m-3 n(E) Electron density per unit energy and per unit volume m-3

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Principles of Semiconductor Devices by Sima Dimitrijevic

Principles of Semiconductor Devices and Heterojunctions [Bart V Van Zeghbroeck] on Amazon.com. *FREE* shipping on qualifying offers. This comprehensive electronic volume, written for the field of semiconductor devices, provides a combination of introductory descriptions illustrated with several figures and alternated with examples

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Introduction The Semiconductor Industry Semiconductor devices such as diodes, transistors and integrated circuits can be found everywhere in our daily lives, in Walkman, televisions, automobiles, washing machines and computers.

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Principles of Semiconductor Technology. One of the most important applications for semiconductor materials involves their use in the creation of transistors, which are solid-state electron devices that form the basis for a vast range of electronic systems and equipment, particularly integrated circuits.

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utilizing discrete semiconductor devices. It progresses from basic diodes through bipolar and field effect transistors. The text is intended for use in a first or second year course on semiconductors at the Associate or Baccalaureate level. In order to make effective use of this text, students should have already taken coursework