

Principles Of Semiconductor Devices And Heterojunctions By Bart Van Zeghbroeck

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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.

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Principles of semiconductor devices - Oxford Scholarship. p - n junctions are examined initially and the potential distribution in the junction region is derived based on Poisson ' s equation. Next the operation of the transistor is discussed, both in terms of the physics and of equivalent circuits. Potential distributions in metal - semiconductor junctions are derived and the concept of surface states is introduced.

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Principles of Semiconductor Devices Chapter 1: Review of Modern Physics 1.1 Introduction The fundamentals of semiconductors are typically found in textbooks discussing quantum mechanics, electro-magnetics, solid-state physics and statistical thermodynamics. The purpose of this chapter is to review the physical concepts,

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Principles of Semiconductor Devices ρ Hole lifetime τ_p Potential V_B Barrier height V_F Bulk potential V_i Built-in potential of a p-n diode or Schottky diode V_s Potential at the semiconductor surface V_M Workfunction of the metal V_{MS} Workfunction difference between the metal and the semiconductor V_S Workfunction of the semiconductor V

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Semiconductor devices require low voltage operation as compared to vacuum tubes. Owing to their small sizes, the circuits involving semiconductor devices are very compact. Semiconductor devices are shock proof. Semiconductor devices are cheaper as compared to vacuum tubes. Semiconductor devices have an almost unlimited life.

Types of Semiconductor Devices and Applications

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Further questions relate to two-dimensional transport in the most important field-effect devices and one-dimensional transport in nanowires and carbon nanotubes. 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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Description. Ideal for undergraduate and beginning graduate students in electrical engineering, Understanding Semiconductor Devices provides a solid grounding in both fundamental principles and practical skills. The text features intuitive explanations and a motivating "electronics-to-physics" approach that progresses from basic to more abstract concepts.

Understanding Semiconductor Devices - Hardcover - Sima ...

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