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An Introduction To Semiconductor Devices

An Introduction to Semiconductor Devices by Donald Neamen provides an understanding of the characteristics, operations and limitations of semiconductor devices. In order to provide this understanding, the book brings together the fundamental physics of the semiconductor material and the semiconductor device physics.

An Introduction to Semiconductor Devices: Neamen, Donald ...

In between conductors and insulators, there is a third classification of atoms (material) known as semiconductors. Generally, the conductivity of a semiconductor lies in between the conductivities of metals and insulators. However, at absolute zero temperature, the semiconductor also acts like a perfect insulator.

Semiconductor Devices - Introduction - Tutorialspoint

Integrated circuits (ICs) made from a semiconductor material (such as silicon) are essential parts of modern electronic devices across commercial and consumer industries. These circuits must have the ability to behave as an electrically controlled on/off switch (transistor) to perform the foundational logical computations in a computer.

Introduction to Semiconductors | AMD

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 $E = m_n v_d = (1.08) 9.11 \times 10^{-31} \times 2.4 \times 10^6$ or $4 \times 10^{-25} \text{ J}$

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An Introduction to Semiconductor Devices by Donald A. Neamen

A semiconductor device is an electronic component that relies on the electronic properties of a semiconductor material (primarily silicon, germanium, and gallium arsenide, as well as organic semiconductors) for its function. Semiconductor devices have replaced vacuum tubes in most applications.

Semiconductor device - Wikipedia

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Semiconductor devices can display a range of useful properties, such as passing current more easily in one direction than the other, showing variable resistance, and sensitivity to light or heat.

Semiconductor - Wikipedia

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For a particular silicon semiconductor device at $T = 30 \dots$

Understanding of this important concept leads to the ability to:

- Understand and design custom semiconductor materials with optical and electrical properties tailored to specific needs
- Understand and design electrical and optical devices including advanced diodes, LEDs, LASER diodes, transistors (BJT and FET), and advanced device concepts such as microwave compound semiconductors and state of the art devices.

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