

An Introduction To Semiconductor Devices Solution Manual

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An Introduction To Semiconductor Devices

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An Introduction to Semiconductor Devices by Donald A. Neamen

What is a semiconductor? 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.

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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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The semiconductor materials used in electronic devices are doped under precise conditions to control the concentration and regions of p- and n-type dopants. A single semiconductor crystal can have many p- and n-type regions; the p-n junctions between these regions are responsible for the useful electronic behavior.

Semiconductor - Wikipedia

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This course aims to provide a general understanding of semiconductor devices. This course explores the principles and the operation mechanism of semiconductor, such as charge transfer, p-n junction, junction capacitors, and Metal-Oxide-Semiconductor Field Effect Transistors(MOSFETs).

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