

## An Introduction To Semiconductor Devices Solution Manual

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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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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. This new text provides an accessible and modern presentation of material.

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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

An Introduction to Semiconductor Devices by Donald Neamen provides an understanding of the characteristics, operations and limitations of semiconductor devices.

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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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