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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 device 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

The impurity modifies the electrical properties of the semiconductor and makes it more suitable for electronic devices such as diodes and transistors. While adding impurities, a small amount of suitable impurity is added to pure material, increasing its conductivity by many times.

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Extrinsic Semiconductors - Definition, Types and ...

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External and Internal Storage Devices: Optical, Magnetic ...

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Class 12 Physics Chapter 14 Semiconductor Electronic: Material, Devices And Simple Circuits. In this chapter, we will introduce the basic concepts of semiconductor physics and discuss some semiconductor devices like junction diodes (a 2-electrode device) and bipolar junction transistor (a 3-electrode device).

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Impact of semiconductor material properties on laser performance, Investigation of failure and damage, mechanisms, and device reliability, Physics of interfaces (thermal, electrical, optical) and their management; Integrated laser structures, hybrid and epitaxial Si-based lasers; Internal resonator configurations

Topic Categories | CLEO

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Topics Covered in Class 12 Physics Chapter 14 Semiconductor

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Electronics: Materials, Devices and Simple Circuits for Second Term: Energy bands in conductors, semiconductors and insulators (qualitative ideas only) Semiconductor diode - I-V characteristics in forward and reverse bias, diode as a rectifier; Special purpose p-n junction diodes ...

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Electronics - Wikipedia

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Chapter ...

Frances Hugle graduated from the University of Chicago in 1946 with degrees in chemistry, physics, and philosophy and received her M.Sc. degree from the University of Cincinnati. She co-founded Hugle Industries, Siliconix, Stewart Warner Microcircuits, Inc. and Opto-Electronics Devices, Inc.

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