Mindluster Platform

About the course Semiconductor Materials in Electronic Devices

Semiconductor Materials course in hindi, In this course explore the properties, fabrication, and applications of semiconductor materials in electronics and technology.

Engineering Category's Courses

Course Lesson(26)

Lesson 1 : **Energy Bands and Classification of Solid Material in Basic Electronics**

Lesson 2 : **Types of Semiconductor Materials**

Lesson 3 : **Drift Current and Diffusion Current in Semiconductor Materials**

Lesson 4 : **Mass Action Law in Semiconductor**

Lesson 5 : **1 Examples on Semiconductor Material**

Lesson 6 : **2 Examples on Semiconductor Material**

Lesson 7 : **Examples on Drift Current and Drift Velocity**

Lesson 8 : **Examples of Conductivity and Resistivity**

Lesson 9 : **Einstein Relation in Semiconductor**

Lesson 10 : **Examples of Diffusion Current**

Lesson 11 : **Examples of Einstein Relation in Semiconductor**

Lesson 12 : **Fermi Dirac Distribution in Semiconductor**

Lesson 13 : **Electrons Concentration in Conduction Band and Holes Concentration in Valence Band**

Lesson 14 : **Intrinsic Concentration in Semiconductor Material**

Lesson 15 : **Comparison of Drift Velocity and Free Velocity**

Lesson 16 : **Fermi Energy Level in Intrinsic Semiconductor**

Lesson 17 : **Fermi Energy Level in Extrinsic Semiconductor**

Lesson 18 : **Hall Effect in Conductor and Semiconductor**

Lesson 19 : **Examples of Hall Effect in Conductor and Semiconductor**

Lesson 20 : **Energy Wavelength for Generation Recombination in Semiconductor**

Lesson 21 : **Examples of Energy Wavelength for Generation Recombination in Semiconductor**

Lesson 22 : **Generation Recombination due to Uniform Illumination of Light in Semiconductor**

Lesson 23 :

Examples of Generation Recombination due to Uniform Illumination of Light in Semiconductor

Lesson 24 : Examples of Energy Band Diagram of Semiconductor

Lesson 25 : Continuity Equation in Semiconductor

Lesson 26 : Direct Bandgap Semiconductors and Indirect Bandgap Semiconductors

Related courses

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