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A semiconductor material has an
electrical conductivity value falling
between that of a conductor, such as

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Metallic copper, and an insulator, such as glass. Its resistivity falls as its temperature rises; metals are the opposite. Its conducting properties may be altered in useful ways by introducing impurities ("doping") into the crystal structure. When two differently-doped regions exist in the ...

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Semiconductor - Wikipedia

The basic function of such a device is to switch ON and OFF the flow of electricity as and when required. A semiconductor device can perform the function of a vacuum tube with hundreds of times its volume. A single

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integrated circuit (IC), such as a
microprocessor chip, can do the work
of a set of vacuum tubes.

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26 $E_3 = 4.145 \text{ eV}$ $E_4 = 6.0165 \text{ eV}$ so
 $E_g = 1.87 \text{ eV}$ (c) $2\lambda_c < \lambda < 3\lambda_c$ 1st
point: $\lambda_c = 2.54 \mu\text{m}$ 2nd point: $\lambda_c = 3 \mu\text{m}$

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Then $E_5 = 9.704$ eV $E_6 = 13.537$

so $\Delta E = 3.83$ eV (d) $3\pi < ka < 4\pi$ 1st

point: $ka = 3.44\pi$ 2nd point: $ka = 4\pi$

Then $E_7 = 17.799$ eV $E_8 = 24.066$ eV

so $\Delta E = 6.27$ eV $3.10\pi < ka < 3.14\pi$ $\sin ka \cos ka$? ?

? $\sin ka + \cos ka = ka$ Forbidden energy bands

(a) $ka = \pi$? $\cos ka = 0$ 1st point ...

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(Neamen) solution manual for
semiconductor physics and ...

A semiconductor is a substance whose resistivity lies between the conductors and insulators. The property of resistivity is not the only one that decides a material as a semiconductor, but it has few

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properties as follows. Semiconductors have the resistivity which is less than insulators and more than conductors.

Basic Electronics - Semiconductors -
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Chapter 3 3.1 If α_0 were to increase, the bandgap energy would decrease and the material would begin to behave less like a semiconductor and more like a metal. If α_0 were to decrease, the bandgap energy would increase and the material would begin

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to behave more like an insulator. 3.2
wave equation is: $\nabla^2 \psi = -\frac{2mE}{\hbar^2} \psi$
Assume the solution is of the form: $\psi = e^{j(kx - \omega t)}$
Region ...

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Principles semiconductor physics. The first is to start from first principles (as much as is possible) of quantum mechanics, statistical mechanics, etc., and derive for the reader the basic relationships and equations that the rest of the text relies on.

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