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the electrical properties and
characteristics of semiconductor
materials and devices. The goal of
this book is to bring together

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quantum mechanics, the quantum theory of solids, semiconductor material physics, and semiconductor device physics in a clear and understandable way.

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

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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

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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

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vacuum tube with hundreds of times its volume. A single integrated circuit (IC), such as a microprocessor chip, can do the work of a set of vacuum tubes.

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$= 4.145 \text{ eV}$ $E_4 = 6.0165$ so $\Delta E = 1.87 \text{ eV}$ (c) $2\pi < ka < 3\pi$ 1st point: $\alpha a = 2.54\pi$ 2nd point: $\alpha a = 3\pi$ Then $E_5 = 9.704$ $E_6 = 13.537$ so $\Delta E = 3.83 \text{ eV}$ (d) $3\pi < ka < 4\pi$ 1st point: $\alpha a = 3.44\pi$ 2nd point: $\alpha a = 4\pi$ Then $E_7 = 17.799$ eV $E_8 = 24.066 \text{ eV}$ so $\Delta E = 6.27$

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$E = E_c + \frac{\hbar^2 k^2}{2m_e}$
 $E = E_v - \frac{\hbar^2 k^2}{2m_h}$
Forbidden energy bands
(a) $ka = \pi$ $\cos ka = -1$ 1st point
...

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A semiconductor is a substance

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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 properties as follows.

Semiconductors have the resistivity which is less than

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insulators and more than
conductors.

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Problem Solutions 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

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would begin 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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There are two ways to teach semiconductor physics. The first is to start from first principles (as much as is possible) of quantum mechanics, statistical mechanics,

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etc., and derive for the reader the basic relationships and equations that the rest of the text relies on.

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with the electrical properties and characteristics of semiconductor materials and devices. The goal of this book is to bring together quantum mechanics, the quantum theory of solids, semiconductor material physics, and semiconductor device

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