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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



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differently-doped regions exist in the

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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

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the function of a 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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$26 E_3 = 4.145 \text{ eV}$   
 $E_4 = 6.0165$  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  $E_5 =$   
 $9.704 \text{ eV}$   
 $E_6 =$   
 $13.537$  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  $E_7 =$   
 $17.799 \text{ eV}$   
 $E_8 =$

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24.066 eV so  $\Delta E =$   
 $6.27 \text{ eV} \cdot 3.10^{-6} \sin$   
 $\cos \alpha \alpha \alpha a a +$   
 $a = ka$  Forbidden  
energy bands (a)  
 $ka = \pi \Rightarrow \cos ka =$   
 $-1$  1st point ...

(Neamen)solution  
manual for  
semiconductor  
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A semiconductor is  
a substance whose

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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.

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have the resistivity  
which is less than  
insulators and  
more than  
conductors.

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Chapter 3 3.1 If a  $\alpha_0$   
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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 a  $\alpha_0$  were to  
decrease, the



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bandgap energy  
would increase and  
the material would  
begin to behave  
more like an  
insulator. 3.2 wave  
equation is:  $\nabla^2 \psi = -\frac{2m}{\hbar^2}(E - V)\psi$   
Assume the  
solution is of the  
form:  $\psi = u \exp(jkx)$   
t Region ...

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of this book is to bring together quantum mechanics, the quantum theory of solids, semiconductor material physics, and semiconductor device physics in a clear and understandable way.



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