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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  
glass. Its resistivity falls

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

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of vacuum tubes.

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Solutions 26  $E_3 = 4.145$   
eV  $E_4 = 6.0165$  so

$E_5 = 1.87$  eV (c)  $2\pi k a <$

$3\pi k a < 3\pi$  1st point:  $k a =$   
 $2.54$  2nd point:  $k a = 3\pi$

Then  $E_5 = 9.704$  eV

$E_6 = 13.537$  so  $E_6 =$

$3.83$  eV (d)  $3\pi k a < 4\pi$

1st point:  $k a = 3.44$

2nd point:  $k a = 4\pi$  Then

$E_7 = 17.799$  eV  $E_8 =$

$24.066$  eV so  $E_8 = 6.27$

eV  $3.10 \sin \cos \cos ?$

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? ?  $a + a = ka$

Forbidden energy bands

(a)  $ka = ?$  ?  $\cos ka = ?$  1

1st point ...

(Neamen)solution

manual for

semiconductor physics

and ...

A semiconductor is a

substance whose

resistivity lies between

the conductors and

insulators. The property

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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 insulators and more than conductors.

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If  $\alpha_0$  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  $\alpha_0$  were  
to decrease, the bandgap

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energy would increase  
and the material would  
begin to behave more  
like an insulator. 3.2

wave equation is:  $\nabla^2 \psi = -\frac{2mE}{\hbar^2} \psi$ ,  
 $\nabla^2 V = -\frac{2mE}{\hbar^2} V$  Assume  
the solution is of the  
form:  $\psi = u \exp(jkx - \omega t)$   
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

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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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