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theory of solids,  
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electrical conductivity  
value falling between  
that of a conductor, such  
as 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

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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

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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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Chapter 3 Solutions  
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Solutions 26  $E_3 = 4.145$   
 $eV$   $E_4 = 6.0165$  so  
 $E_5 = 1.87 eV$  (c)  $2E_3 <$   
 $k_a < 3E_3$  1st point:  $E_3 =$   
 $2.54E_3$  2nd point:  $E_3 = 3E_3$   
Then  $E_5 = 9.704 E_3$   
 $E_6 = 13.537$  so  $E_6 =$

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3.83 eV (d)  $3\pi < ka < 4\pi$

1st point:  $\pi a = 3.44\pi$

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

$E_7 = 17.799 \text{ eV}$   $E_8 =$

$24.066 \text{ eV}$  so  $\Delta E = 6.27$

$\text{eV}$   $3.10 \frac{6 \sin \cos \cos ?$

$?? a a + a = ka$

Forbidden energy bands

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

1st point ...

(Neamen)solution

manual for

semiconductor physics

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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 properties as follows.

Semiconductors have the resistivity which is

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Chapter 3 D. A.  
Neamen Problem  
Solutions Chapter 3 3.1  
If  $\alpha_0$  were to increase,  
the bandgap energy



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

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

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

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