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Problem Solutions 26

$E_3 = 4.145 \text{ eV}$   $E_4 = 6.0165 \text{ eV}$  so  $\Delta E = 1.87$

$\text{eV}$  (c)  $2\lambda < ka < 3\lambda$

1st point:  $\lambda_a = 2.54\lambda$

2nd point:  $\lambda_a = 3\lambda$

Then  $E_5 = 9.704 \text{ eV}$

$E_6 = 13.537 \text{ eV}$  so

$\Delta E = 3.83 \text{ eV}$  (d)  $3\lambda <$

$ka < 4\lambda$  1st point:  $\lambda_a =$

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3.44? 2nd point:  $a =$   
4? Then  $E_7 = 17.799$   
eV  $E_8 = 24.066$  eV so  
 $E = 6.27$  eV  $3.10 \cdot 6$   
 $\sin \cos \cos ? ? ? a a +$   
 $a = ka$  Forbidden  
energy bands (a)  $ka =$   
 $? ? \cos ka = ?$  1st  
point ...

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A. Neamen Problem Solutions Chapter 3

3.1 If  $\alpha_0$  were to increase, the bandgap energy would decrease and the material would begin to behave less like a

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more like a metal.

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