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Manual Problem Solutions 26 $E_3 = 4.145$
eV $E_4 = 6.0165$ so $E = 1.87$ eV (c)

$2 < ka < 3$ 1st point: $a = 2.54$

2nd point: $a = 3$ Then $E_5 =$

9.704 eV $E_6 = 13.537$ so $E = 3.83$ eV

(d) $3 < ka < 4$ 1st point: $a = 3.44$

2nd point: $a = 4$ Then $E_7 = 17.799$

eV $E_8 = 24.066$ eV so $E = 6.27$ eV 3.10

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All have one valence electron in the outer
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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.

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