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$kx = ?$  so  $?? + = 2 2 2 0 X x k X x$  Solution is of the form  $X(x) =$

$A \sin kx + B \cos kx$  Boundary conditions:  $X(0) = 0$   $B = 0$

and  $X(x) = 0$  at  $x = L$  where  $n = 1, 2, 3, \dots$

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The resulting semiconductor is n-type.  $E_g(T) = 1.17 - 4.73 \times 10^{-4} T^2$  for Si

$E_g(100 \text{ K}) = 1.163 \text{ eV}$ , and  $E_g(600 \text{ K}) = 1.032 \text{ eV}$

$E_g(T) = 1.519 - 5.405 \times 10^{-4} T^2$  for GaAs  $E_g(100 \text{ K}) = 1.501 \text{ eV}$ , and  $E_g(600 \text{ K}) = 1.277 \text{ eV}$ .

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