

Practice Problems- Band Theory of solids and Semiconductors

1. Refer to the class notes on band structure of solid. In the case of periodically placed delta function potential, show that the wave function for a particle in the periodic delta function potential can be written in the form

$$\psi(x) = C[\sin(kx) + e^{-iKa} \sin(k(a-x))], \quad 0 \leq x \leq a.$$

2. Find the energy at the top of the first allowed band, for the case $\beta = 5$, correct to three significant digits. For the sake of argument, assume $a/a = 1$.
3. Find the Fermi energy of copper metal. The electron density in copper is $8.5 \times 10^{28} \text{electrons/m}^3$.

[Ans. 7.04 eV]

4. An electron beam strikes a crystal of cadmium sulfide (CdS). Electrons scattered by the crystal move at a velocity of $4.4 \times 10^5 \text{ m/s}$. Calculate the energy of the incident beam. Express your result in eV. CdS is a semiconductor with a band gap, E_g , of 2.45 eV.
(Hint: $E_{\text{incident}} = E_{\text{emitted}} + E_{\text{scattered}}$).

5. The number of electron-hole pairs in intrinsic germanium (Ge) is given by:

$$n_i = 9.7 \times 10^{15} \times T^{3/2} \times e^{\frac{-E_g}{2kT}} \text{ cm}^{-3}$$

($E_g = 0.72 \text{ eV}$)

- (a) What is the density of pairs at $T = 20 \text{ deg-C}$?
 - (b) Will undoped Ge be a good conductor at 200 deg-C ? If so, why?
6. If no electron-hole pairs were produced in germanium (Ge) until the temperature reached the value corresponding to the energy gap, at what temperature would Ge become conductive? ($E_{\text{gap}} = 3/2kT$)
 7. Given $\mu_p = 470 \text{ cm}^2/\text{V.s}$ for Si, what is the hole drift velocity at $\mathcal{E} = 10^3 \text{ V/cm}$. What is τ_{avg} and what is the average distance traveled between collisions, i.e., the mean free path ? (Ans. mean free path = 22nm).
 8. What is the hole diffusion constant in a piece of silicon doped with $3 \times 10^{15} \text{ cm}^{-3}$ of donors and $7 \times 10^{15} \text{ cm}^{-3}$ of acceptors at 300 K? at 400 K? [Ans. $7.6 \text{ cm}^2/\text{V.s}$]

Semiconductors Their Theory Practice

Jiyuan Zhang



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