

4. (a) Find out the critical radius ratio of an ionic crystal in ligancy 6 configuration. What is the maximum size of cation in ligancy 6 configuration when the radius of anion is 2.02 \AA . 5
- (b) In an n type semiconductor the Fermi level lies 0.4 eV below the conduction band. If the concentration of donor atom is doubled, find the new position of the Fermi level w.r.t. the conduction band. 5
- (c) Explain the origin of electronic, ionic and orientational polarization and temperature dependence of respective polarizability. 5
5. (a) Find out the intercepts made by the planes. (1 0 1) and (4 1 4) in a cubic unit cell. Draw $[\bar{1} 2 1)$ and $[1 2 4]$ in a cubic unit cell. 5
- (b) A bar of n type Ge of size $0.010\text{m} \times 0.001\text{m} \times 0.001\text{m}$ is mounted in a Magnetic field of $2 \times 10^{-1}\text{T}$. The electron density in the bar is $7 \times 10^{21}/\text{m}^3$. If one millivolt is applied across the long ends of the bar, determine the current through the bar and the voltage between Hall electrodes placed across the short dimensions of the bar. Assume $\mu_e = 0.39 \text{ m}^2/\text{Vs}$. 5
- (c) Define reverberation time. Write Sabine's formula explaining every term. What are the factors which determine the average absorption co-efficient of a material. 5
6. (a) Explain the differences between three different liquid crystal phases w.r.t. the order in the arrangement of molecules, with the help of diagram. Which property of the liquid crystal is used for display. 5
- (b) How a p-n junction diode is used to generate a potential difference in a photovoltaic solar cell. 5
- (c) What is piezoelectric effect. Explain the working of a piezoelectric oscillator used to produce ultrasonic wave. 5

Civil Sample Question Paper Applied Physics

Karin Nielsen-Saines



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