

Equilibrium Carrier Concentration

In silicon and other semiconductors,

$$n_0 = N_c \exp\left(\frac{-(E_c - E_F)}{kT}\right) \quad \text{conduction band}$$

$$p_0 = N_v \exp\left(\frac{-(E_F - E_v)}{kT}\right) \quad \text{valence band}$$

n_0 : electron concentration at thermal equilibrium (cm^{-3})

p_0 : hole concentration at thermal equilibrium (cm^{-3})

N_c : effective density of states for conduction band (cm^{-3})

N_v : effective density of states for valence band (cm^{-3})

E_F : Fermi energy (eV)

k : Boltzmann constant (J/K)

T : absolute temperature (K)

Semiconductor Equations

R Barnett



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