# **Equilibrium Carrier Concentration**

In silicon and other semiconductors,

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

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

no: electron concentration at thermal equilibrium (cm-3)

p<sub>0</sub>: hole concentration at thermal equilibrium (cm<sup>-3</sup>)

N<sub>c</sub>: effective density of states for conduction band (cm<sup>-3</sup>)

N<sub>v</sub>: effective density of states for valence band (cm<sup>-3</sup>)

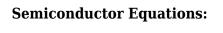
E<sub>F</sub>: Fermi energy (eV)

k: Boltzmann constant (J/K)

T: absolute temperature (K)

# **Semiconductor Equations**

**R Barnett** 



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