

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

Mark Steyvers



Semiconductor Equations:

The Enigmatic Realm of **Semiconductor Equations**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Semiconductor Equations** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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