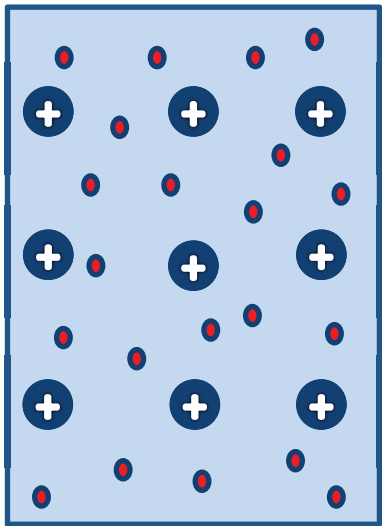
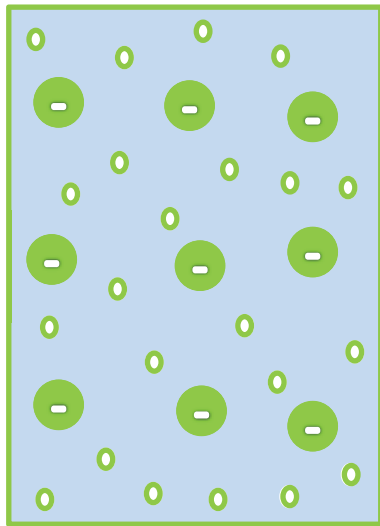


N-Type



P-Type



Negatively charged electrons

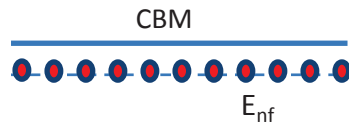
Positively charged immobile ions



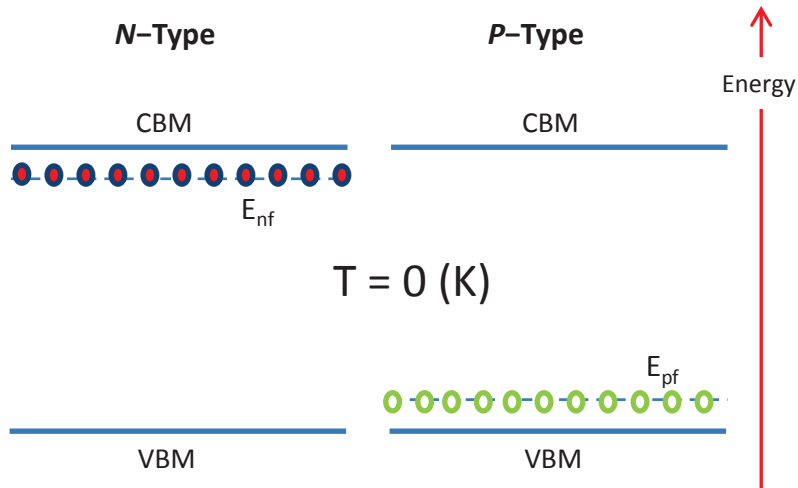
Positively charged holes

Negatively charged immobile ions

N-Type



P-Type



$T = 0 \text{ (K)}$

CBM: Conduction band minimum

VBM: Valence band maximum