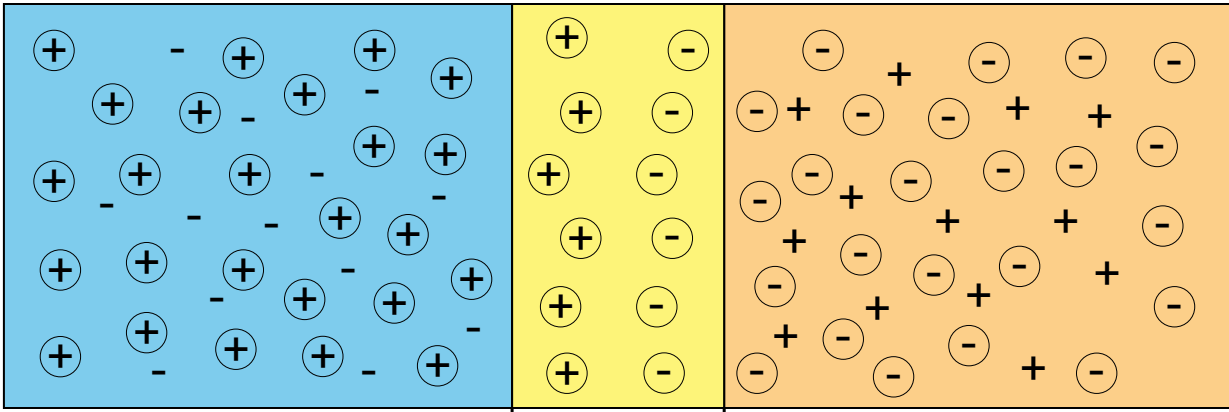


n-type region

p-type region



Depletion Layer

Electric Field

Voltage

- Free electrons
- ⊕ Positive phosphorous ion
- ⊖ Negative boron Ion
- + Holes