

$$\frac{10^{16} \text{ atom/cm}^3}{1 \text{ cm}^3 \quad 2.3 \text{ g/cm}^3}$$

$$1 \text{ cm}^3 \quad 2.3 \text{ g/cm}^3$$

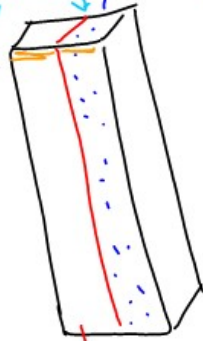
$$\frac{2.3}{20} \approx 0.08 \text{ mol} \times 6.02 \times 10^{23} = 4.8 \times 10^{22} \text{ atoms}$$

$$1 \times 10^{16} / 5 \times 10^{22}$$

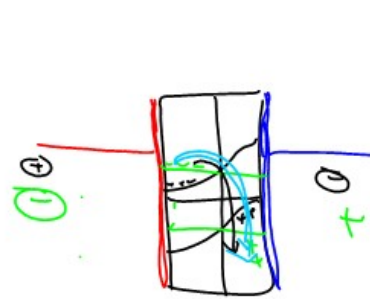
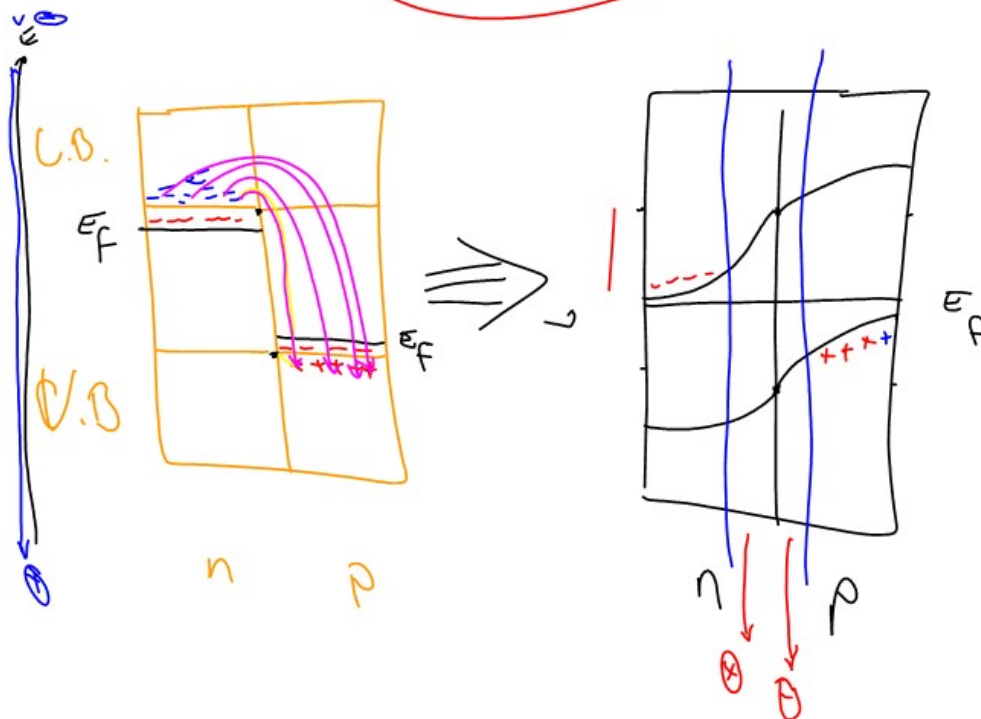
$$1 : 5 \times 10^6$$

$$10^{20} \text{ cm}^{-3}$$

p-n junction
(homojunction) 10^{16} cm^{-3} p-type



n-type 10^{16} cm^{-3}



Rectifier

