

Drift Current density

Mh: mobility of

Diffusion Current Donsity

-> Bifference in the concentration

$$J_n = D_n q_n \frac{dn}{dx}$$

$$J_p = q_n p_{\frac{dp}{dx}}$$
Holes

Dh: Diffunivity

Einstein Relation

$$\frac{E}{g} = V$$

$$S = V$$

$$V$$

$$A$$

$$T = 273 + Tc$$

$$\binom{k}{k}$$

$$\frac{\sqrt{k} \times k}{\sqrt{3}}$$
Russel Ohl
1940

At Room. $V_0 = 26mV$ $ln\left(\frac{NaNn}{vi^2}\right)$

Built -in Potential