

# Properties of Semiconductor

Basic

Equation:

➤ For a one-dimensional problem, this reduces to a more useful form of

$$\frac{d^2 \psi_i}{dx^2} = - \frac{dE}{dx} = - \frac{\rho}{\epsilon_s} = \frac{q(n - p + N_D - N_A)}{\epsilon_s}$$

➤ ( $\psi_i \equiv -E/q$ ). Commonly used, for example, to determine the **potential and field distribution** caused by a **charge density  $\rho$**  within the depletion layer.

➤ The second equation deals with **charge density along an interface, instead of bulk charge**. The boundary conditions across an interface of charge sheet  $Q$  is given by

$$E_1(0^-) \epsilon_1 = E_2(0^+) \epsilon_2 - Q$$

# Semiconductor Equations

**L Darling-Hammond**



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