Reading
Adel S. Sedra and Kenneth C. Smith, Microelectronic Circuits 7th Edition, Oxford University Press,
2014.
• Chapter 3.4-3.6

Review  $N_{\rho} = \Lambda_{e}$ TUNOK TA 11 11 -11  $= S_1 = S_1 = S_1 =$ 11 10 e- 11 = Si = Si =ni=ne=np @ 300 K  $\rightarrow$  n; = 1.5 x10  $^{10}$ Np. Ne = ni  $\frac{\bigcap_{e} = N_{D}}{\bigcap_{e} \bigcap_{v} N_{p} = \bigcap_{v} N_{p}}$   $\frac{\bigcap_{e} = N_{D}}{\bigcap_{v} N_{p}}$ 5A 4A Si >> P N-type seniconductor No= NA Ne=? 4A 3A 5: 3 B  $\Lambda_i^2 = np \Lambda e = N_A . \Lambda e$ p-type  $Ne = \frac{n^2}{NA}$ semiconductor





