Chapter 5  pn Junction Electrostatics

5.2.3  Step Junction with $V_A \neq 0$
- Ohmic Contact
- Zero voltage drop outside the depletion region
- Solutions for $\rho$, $\mathcal{E}$, $V$ and $x_n$ and $x_p$ are obtained by simply replacing $V_{bi}$ with $(V_{bi} - V_A)$
- Note that the low-level injection assumption
- $V_A \leq V_{bi}$

5.2.4  Examination/Extrapolation of Results
- $E_{fp}$, $E_{fa}$
- Forward and reverse biasing effects (Figure 5.11)
- Forward and reverse biasing energy band diagrams (Figure 5.12)

Reading: Chapter 5.2.3, 5.2.4