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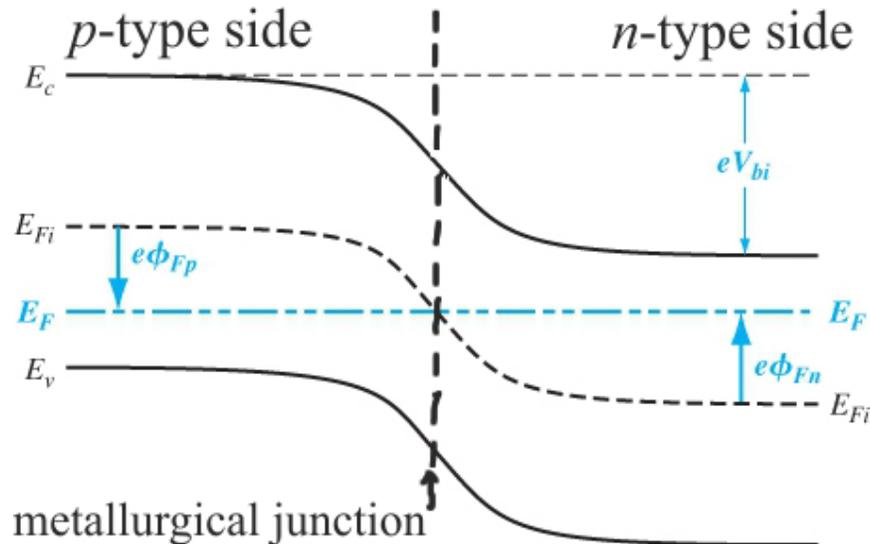


Figure 7.3 | Energy-band diagram of a pn junction in thermal equilibrium.

- On left (*p*-type), $E_F < E_{Fi}$ and E_c and E_v are higher than on the right/*n*-type side of the junction.
- On right (*n*-type), $E_F > E_{Fi}$ and E_c and E_v are lower than on the left/*p*-type side of the junction.
- Note that E_{Fi} remains equidistant between E_c and E_v .