

Special Problem 3.2-6

The $650\ \Omega$ resistor has $1\ \text{mA}$ flowing through it.

The p - n junction diode D_1 has an ideality factor of $n = 1.0$, and a scale current $I_s = 7.55 \times 10^{-14}\ \text{A}$.

The p - n junction diode D_2 has an ideality factor of $n = 1.0$, and a scale current $I_s = 5.11 \times 10^{-15}\ \text{A}$.

a) Determine the **exact** values of the **voltage across**, and the **current through**, each junction diode. In other words, do **not** use diode models (e.g., CVD) to analyze this circuit!

b) Determine also the value of resistor R

