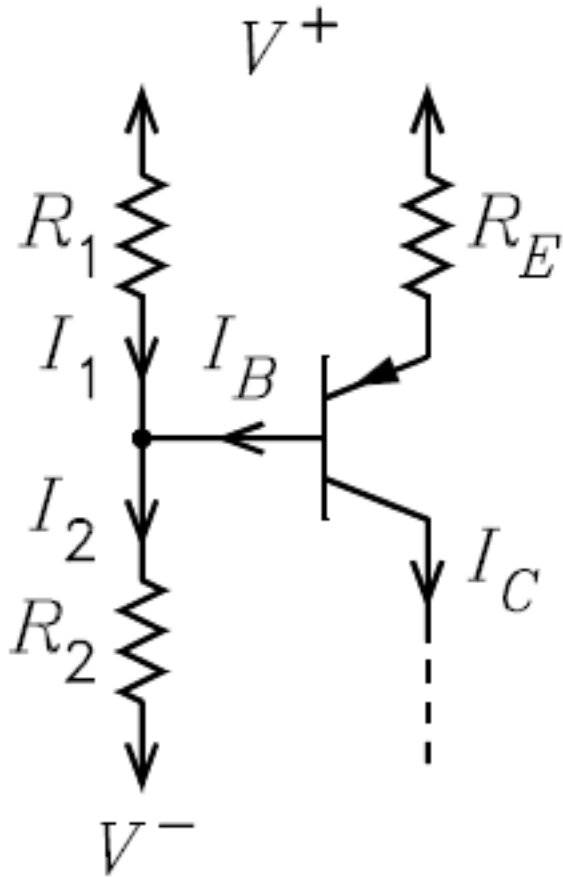


Single PNP Current Source

Thursday, March 2, 2017

2:00 PM



PNP Current Source Configuration

Step 1	Calculate V_B to get the operating point of the BJT	$V_B = \frac{R_2}{R_1 + R_2} V^+$
Step 2	Calculate V_E ($V_{BE} = 0.65$)	$V_E = V_B + V_{BE}$
Step 3	Calculate I_E	$I_E = \frac{V^+ - V_E}{R_E}$
Step 4	Calculate I_C	$I_C = \frac{I_E}{1 + \frac{1}{\beta}}$

