

- 8-12.** For the circuit in Fig. P8-12, calculate and print the voltage gain, the input resistance, and the output resistance. The input voltage is 5 V dc. The model parameters of the BJTs are $B_F=100$, $B_R=1$, $R_B=5$, $R_C=1$, $R_E=0$, $V_{JE}=0.8$, and $V_A=100$.

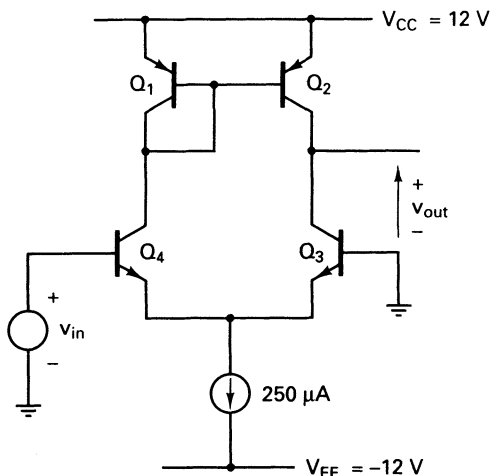


Figure P8-12

- 8-15.** Use PSpice to perform a Monte Carlo analysis for five runs and for the dc sweep of Problem 8-12. The transistor parameters having uniform deviations are

$$B_F = 100 \pm 50$$

$$V_A = 100 \pm 20$$

- (a) The greatest difference from the nominal run is to be printed.
- (b) The maximum value of the output voltage is to be printed.
- (c) The minimum value of the output voltage is to be printed.