

COMMON-EMITTER AMPLIFIER

Objective:

The objective of this laboratory is to examine and verify the DC and AC operation of a common-emitter BJT amplifier, and measure its frequency response.

Prelab:

Carry out the following on a separate sheet of paper. Show your work and box your answers. Determine the DC operating point Q (V_{CE} , I_C), small-signal voltage gain $A_v = v_o/v_s$, current gain $A_i = i_o/i_s$, power gain $A_p = P_o/P_s$, input and output resistances R_i and R_o , f_L , and f_H of the amplifier circuit shown in Figure 6.

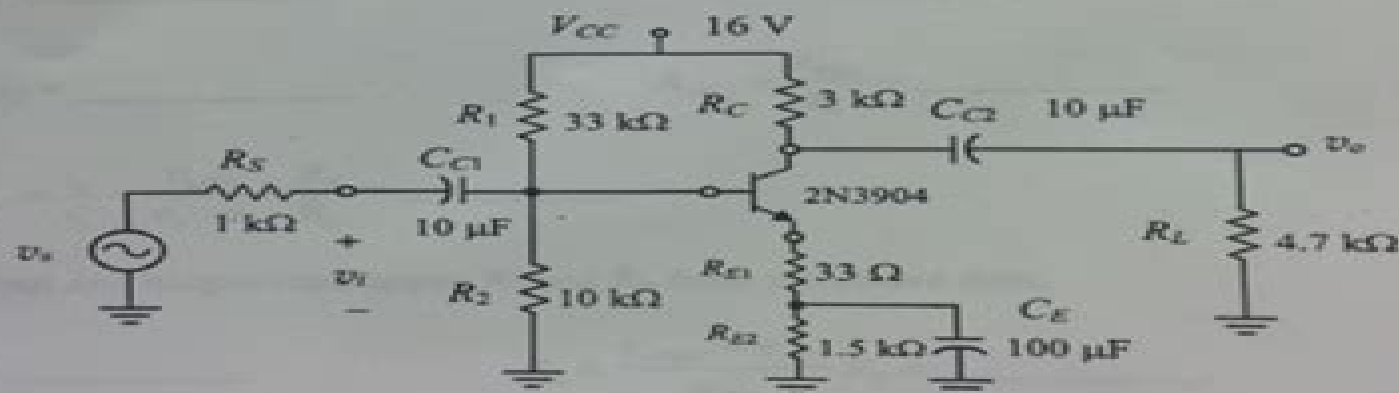


Figure 6: Common-emitter amplifier.

Procedure:

1. Breadboard the circuit of Figure 6. Refer to the 2N3904 transistor data sheets for the pin diagram.
2. Measure and record the following DC voltages and currents.

Common Emitter Amplifier Lab Manual

Wenbin Ji



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