

Literature:

Feedback: P 755-836

Assignments:

10.1:

A CE stage circuit without (by setting $R_f = 0$) or with feedback (by setting $R_f = 20 \Omega$) is shown in Fig. 1.

- (1) Set $R_f = 0$, i.e., without negative feedback, run the simulation and find out $A_v = ?$
 $f_L = ?$ $f_H = ?$ THD = ? @ 20KHz.
- (2) Set $R_f = 20$, i.e., with negative feedback, run the simulation and find out $A_v = ?$
 $f_L = ?$ $f_H = ?$ THD = ? @ 20KHz.
- (3) Comparing the results obtained in (1) and (2), discuss what is the advantages and disadvantages by introducing negative feedback into the circuit.

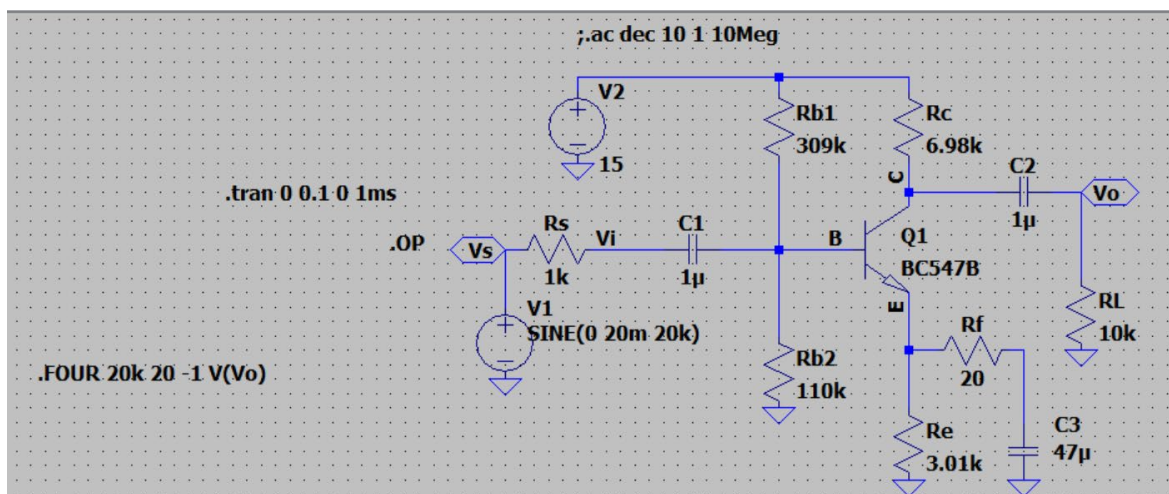


Fig. 1 A CE stage