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Series Capacitance and low frequency response





Instructor Nasser Ismail First2024-2025

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Design of ω

- Previous method explained how to estimate value of <u>ω</u> in an analysis problem where all capacitor values are given, but what happens if it was desired to design an amplifier with certain <u>ω</u> and the task was to find capacitor values ?
- Design criteria to be used is:

 $\omega_{\text{CE}} = (0.7 - 0.9)\omega_{\text{L}}$

 $\omega_{C1} = \omega_{C2} = (0.05 - 0.15)\omega_L$

C1,C2 are input and output coupling capacitors

 C_{E} is bypass capacitor // to R_{E} emitter stabilizing

resistor or Rs source resistor

make sure that $\omega_{CE} + \omega_{C1} + \omega_{C3} = \omega_{L}$







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