ECEN 326 Lab 3
Design of a Common-Source MOSFET Amplifier with a Source Follower

Updated Specifications
Design a common-source MOSFET amplifier with a source follower using the following specifications:

- \( V_{DD} = V_{SS} = 5V \)
- \( |A_v| \geq |-30| \)
- \( I_{supply} \leq 1.5\,mA \)
- \( R_L = 5k\Omega \)
- \( R_{in} \geq 100k\Omega \)
- \( v_{omax} = 1.5V_{pk} \) with harmonic distortion below 5% (-26.0dB)
- Nominal operating frequency = 5kHz

Do the Pre-Lab and Lab Procedure mentioned in the lab manual, with the above modified specifications.