

ELG4139 Lab 2: Operational Amplifier Characteristics

Objectives: To study the characteristics of non-inverting amplifier.

Case 2: Non-inverting Amplifier (Multisim and Hands-on)

- Design a non-inverting amplifier with a gain of 100 using $R_f = 100 \text{ k}\Omega$.
- Verify the circuit's gain and input impedance by simulation.
- Build the circuit and measure the gain.
- What happens to the gain at 20 kHz?
- Using the results of the simulation at 20 kHz, calculate the gain of the closed loop 741 at 20 kHz