Experiment 5: Multi-Pole Feedback Network OP-Amp Circuit

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1. Experiment Objectives

- 1.1. To analyze the theory of feedback network in the multi-pole OP-Amp circuit.
- 1.2. To discuss the issue of stability for the feedback amplifier.
- 1.3. To understand the physical meaning of sinusoidal vibration.

2. Experiment Setups

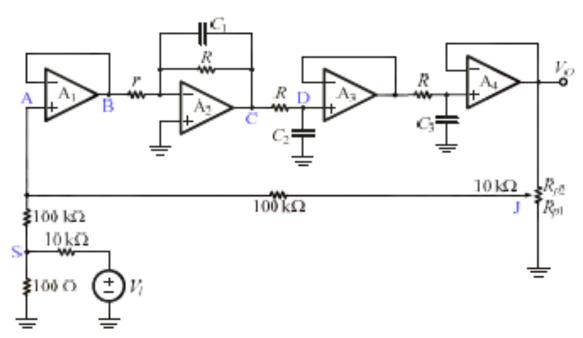


Fig. 7 Multi-pole feedback network OP-Amp circuit

- 2.1. Use R = Rp2 = $10k\Omega$, r = 100Ω , C1 = C2 = C3 = 0.1μ F.
- 2.2. Apply the input signal Vi to the circuit by using function generator to generate vi = vac x square($2\pi ft$), 2vac = 5V(peak-peak), $f = 0 \sim 500$ Hz.
- 2.3. Adjust the frequency of the input signal, until the output signal became sinusoidal wave.

3. Labs Work

3.1. The frequency = 256(Hz) when the output signal became sinusoidal wave.

