

Subject:

Tutorial-

In the voltage follower circuit, op amp used is ideal in all respects, except it has a finite gain, A. Determine $v_a v_a$. If A is equal to 1000, calculate the error of the gain from that of the voltage follower with an ideal op amp.

2) Draw the summer circuits, using two ideal op amps, and calculate the different resistor values to obtain a V₀ = 2v₁-3v₂-6v₃ by v₆ = v₁-3v₂-5v₃-7v₄-9v₅-11v₆, where v₁,v₂,v₃,v₄,v₅ and v₆ are the available inputs.

The output signal of an op amp with a slew rate of 2.5V/μs, has a peak to peak value of 18V. Find the maximum frequency for undistorted output voltage.

An op amp has a differential gain of 2×10⁴ and a CMRR of 86dB. Determine the output, if the differential input is 10 mV.

5. In the circuits of figs 7, 8 and 9, determine the output voltage, vo. Assume the op amps to be ideal.













