

## Miniature Optical Amplifier Experiment Report



### Overview

The purpose of this lab is to show how the performance of an operational amplifier circuit in the frequency domain can be represented by a first order model. Different power amplifier circuits will be c.



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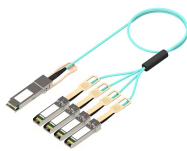
In this exercise, the performance of an op amp based differential amplifier will be examined. The investigation will include the effects of differential gain and common-mode rejection ratio (CMRR).



This document describes an electronics lab experiment involving op-amps. The objectives are to study a voltage follower circuit, a non-inverting amplifier, and an inverting amplifier using op-amps.



**EXPERIMENT NO.(4) Operational Amplifiers**  
**OBJECT:** To study the basic characteristics and applications of the operational amplifiers.



In this experiment you will examine the properties of several of the most often used op amp circuits. Circuits that perform close to perfect mathematical operations (addition, subtraction, integration, and ...



In this lab we will use the TLC277 operational amplifier to implement several different practical configurations of the operational amplifier.



In this experiment you will build and test various basic circuits that incorporate operational amplifiers. You will test such circuits and refine them in order to make them useful in practice.



output voltage of the op amp will reach a value such that equation 4.1 is satisfied. In other words, the current flowing through the load R1 is not dependent on the actual value of its resistance, but rather ...



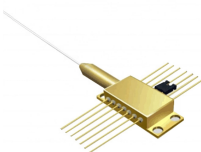
Abstract: In this lab experiment, circuits utilizing operational amplifiers (op-amps) ...



Abstract: In this lab experiment, circuits utilizing operational amplifiers (op-amps) were constructed to explore their voltage amplification and inversion capabilities. With a sinusoidal input voltage supplied ...



Different power amplifier circuits will be constructed, to compare differences in performance and investigate the effects of feedback to correct defects. Furthermore, the effects of measuring ...



We saw one such application in Lab 2 where we built a miniature optical communication system using an LED as a transmitter and a photodiode as the receiver.

## Contact Us

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