

Lab 2: Op Amp Circuits

U.C. Davis Physics 116A

INTRODUCTION

This lab introduces the operational amplifier or "op amp". The circuit is already constructed for you on a single IC (integrated circuit) and in this lab we will use the IC in several of its most popular configurations. For an introduction to op amps, see section 2.4 in *Bodvrow*.

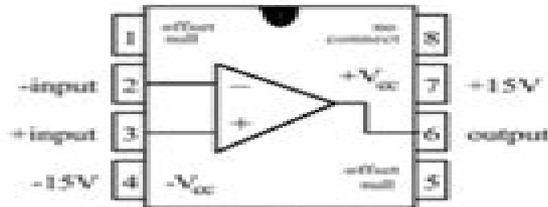


Figure 1: Pinout for the 741 op-amp.

1. INVERTING AMPLIFIER

The pinout diagram for the LM741 op amp IC is shown in figure 1. Use this to construct the inverting op amp circuit shown in figure 2.

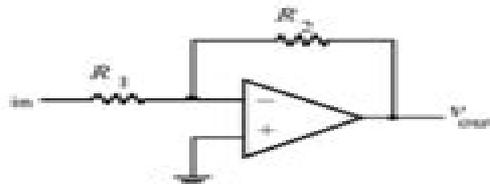


Figure 2: The inverting amplifier.

At first, use $R_1 = 1\text{k}\Omega$ and $R_2 = 33\text{k}\Omega$. Derive the gain formula $A_v = -R_2/R_1$ and experimentally verify the gain for a 100Hz sine wave. Also calculate and measure the gain with $R_1 = 10\text{k}\Omega$ and $R_2 = 100\text{k}\Omega$. For your lab report, give your derivation and compare the 2 calculated and measured gains. Why is this called an inverting amp?

2. NONINVERTING AMPLIFIER

Construct the noninverting amplifier shown in figure 3 with $R_1 = 1\text{k}\Omega$ and $R_2 = 33\text{k}\Omega$. For your report, derive and experimentally verify the gain relation

$$A_v = \frac{R_1 + R_2}{R_1}$$

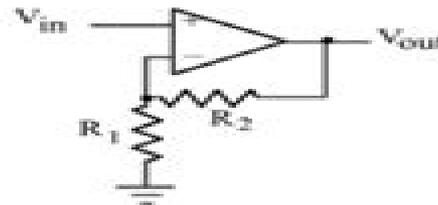


Figure 3: The noninverting amplifier.

3. CURRENT-TO-VOLTAGE CONVERTER

An op amp can be used to produce a voltage proportional to a given current. Construct the circuit in figure 4.

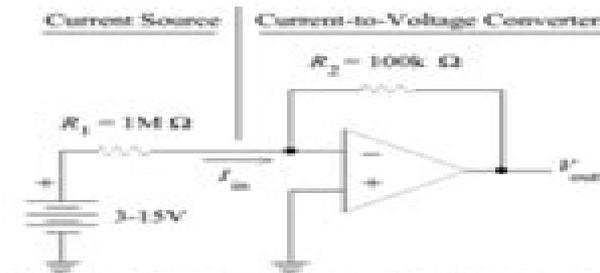


Figure 4: Current source with current-to-voltage converter.

Verify that $V_{out} = -I_{in}R_2$ for this circuit. (That is, do the following for several voltage settings on the variable power supply: Measure the supply voltage and from this calculate I_{in} . Use the formula to calculate a theoretical V_{out} and compare this to a measured V_{out} . Include these measured values and calculations in your report along with a brief discussion of the agreement between theory and measurement.)

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**William Suddards Franklin, Stanley
Sylvester Seyfert, Clarence Edward
Clewell, William Esty**

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Analysis of Amplifier Circuits Through Experimentation Lorne MacDonald, 1975 Op-Amp Circuits Manual R. M. Marston, 2013-10-22 Op amp Circuits Manual Including OTA circuits discusses the operating principles and applications of operational amplifier op amp circuits The book is comprised of 10 chapters that present practical circuits diagrams and tables The text first deals with the standard op amp of the 741 type Next the book covers the special types of op amp such as the Norton amplifier the operational transconductance amplifier OTA and the LM 10 op amp reference IC The book will be of great use to design engineers and technicians Undergraduate students of electronics related degree will also find this book interesting **Lab Manual to Accompany Op-amps and Linear Integrated Circuits, Fourth Edition** Ramakant A. Gayakwad, 2000 **Operational Amplifiers and Linear Integrated Circuits** Robert F. Coughlin, Frederick F. Driscoll, 2001 This popular book presents a clear and interesting approach for op amp courses while examining four basic active filters illustrating 5 V digital logic ICs and more It provides many detailed practical design and analysis examples intended to relate theory to the workplace Chapter topics include first experiences with an op comparators and controls selected applications of op amps signal generators op amps with diodes differential instrumentation and bridge amplifiers DC performance bias offsets and drift AC performance bandwidth slew rate noise active filters modulating demodulating and frequency changing with the multiplier integrated circuit timers digital to analog converters analog to digital converters and power supplies For design engineers rs **Handbook of Operational Amplifier Circuit Design** David F. Stout, 1976 Introduction to operational amplifiers Fundamentals of circuit design using op amps Feedback stability Amplifiers Comparators Converters Demodulators and discriminators Detectors Differential amplifiers Low pass filters High pass filters Bandpass filters Bandstop filters Frequency control Integrators and differentiators Limiters and rectifiers Logarithmic circuits Modulators Oscillators Parameter enhancement and simulation Power circuits Regulators Sampling circuits Time and phase circuits Waveform generators Appendix Operational amplifier parameters Operational amplifier maximum ratings Circuit fabrication techniques Notation used in handbook Decibel calculations RC circuit characteristics **Lab Manual for Electronics** Martin Feldman, 2001-11 The emphasis is first on understanding the characteristics of basic circuits including resistors capacitors diodes and bipolar and field effect transistors The readers then use this understanding to construct more complex circuits such as power supplies differential amplifiers tuned circuit amplifiers a transistor curve tracer and a digital voltmeter In addition readers are exposed to special topics of current interest such as the propagation and detection of signals through fiber optics the use of Van der Pauw patterns for precise linewidth measurements and high gain amplifiers based on active loads KEY TOPICS Chapter topics include Thevenin s Theorem Resistive Voltage Division Silicon Diodes Resistor Capacitor Circuits Half Wave Rectifiers DC Power Supplies Diode Applications Bipolar Transistors Field Effect Transistors Characterization of Op Amp Circuits Transistor Curve Tracer Introduction to PSPICE and AC Voltage Dividers Characterization and Design of Emitter and Source Followers Characterization and Design of an AC Variable Gain Amplifier

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Table of Contents Lab Manual For Various Op Amp Circuits

1. Understanding the eBook Lab Manual For Various Op Amp Circuits
 - The Rise of Digital Reading Lab Manual For Various Op Amp Circuits
 - Advantages of eBooks Over Traditional Books
2. Identifying Lab Manual For Various Op Amp Circuits
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Lab Manual For Various Op Amp Circuits
 - User-Friendly Interface

4. Exploring eBook Recommendations from Lab Manual For Various Op Amp Circuits
 - Personalized Recommendations
 - Lab Manual For Various Op Amp Circuits User Reviews and Ratings
 - Lab Manual For Various Op Amp Circuits and Bestseller Lists
5. Accessing Lab Manual For Various Op Amp Circuits Free and Paid eBooks
 - Lab Manual For Various Op Amp Circuits Public Domain eBooks
 - Lab Manual For Various Op Amp Circuits eBook Subscription Services
 - Lab Manual For Various Op Amp Circuits Budget-Friendly Options
6. Navigating Lab Manual For Various Op Amp Circuits eBook Formats
 - ePub, PDF, MOBI, and More
 - Lab Manual For Various Op Amp Circuits Compatibility with Devices
 - Lab Manual For Various Op Amp Circuits Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lab Manual For Various Op Amp Circuits
 - Highlighting and Note-Taking Lab Manual For Various Op Amp Circuits
 - Interactive Elements Lab Manual For Various Op Amp Circuits
8. Staying Engaged with Lab Manual For Various Op Amp Circuits
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lab Manual For Various Op Amp Circuits
9. Balancing eBooks and Physical Books Lab Manual For Various Op Amp Circuits
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lab Manual For Various Op Amp Circuits
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Lab Manual For Various Op Amp Circuits
 - Setting Reading Goals Lab Manual For Various Op Amp Circuits
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Lab Manual For Various Op Amp Circuits
 - Fact-Checking eBook Content of Lab Manual For Various Op Amp Circuits
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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