

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*.

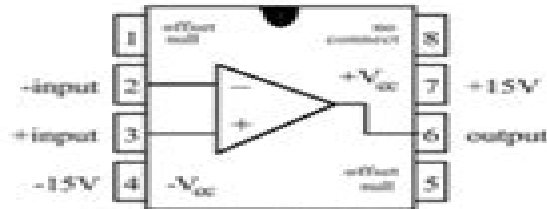


Figure 1: Pinout for the 741 op-amp.

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 $R_2 = 10\text{k}\Omega$ 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.)

Lab Manual For Various Op Amp Circuits

James L. Antonakos



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Analog Electronic Circuits Laboratory Manual Farzin Asadi, 2023-04-06 This is a book for a lab course meant to accompany or follow any standard course in electronic circuit analysis. It has been written for sophomore or junior electrical and computer engineering students either concurrently with their electronic circuit analysis class or following that class. This book is appropriate for non-majors such as students in other branches of engineering and in physics for which electronic circuits is a required course or elective and for whom a working knowledge of electronic circuits is desirable. This book has the following objectives: 1 To support, verify and supplement the theory to show the relations and differences between theory and practice; 2 To teach measurement techniques; 3 To convince students that what they are taught in their lecture classes is real and useful; 4 To help make students tinkers and make them used to asking what if questions. Laboratory Manual for Introductory Electronics Experiments L. K. Maheshwari, M. M. S. Anand, 1979 LABORATORY EXPERIMENTS AND PSPICE SIMULATIONS IN ANALOG ELECTRONICS MAHESHWARI, L. K., ANAND, M. M. S., 2006-01-01 This laboratory manual for students of Electronics, Electrical Instrumentation, Communication and Computer engineering disciplines has been prepared in the form of a standalone text offering the necessary theory and circuit diagrams with each experiment. Procedures for setting up the circuits and measuring and evaluating their performance are designed to support the material of the authors' book *Analog Electronics* also published by PHI Learning. There are twenty-five experiments. The experiments cover the basic transistor circuits, the linear op-amp circuits, the active filters, the non-linear op-amp circuits, the signal generators, the voltage regulators, the power amplifiers, the high-frequency amplifiers and the data converters. In addition to the hands-on experiments using traditional test equipment and components, this manual describes the simulation of circuits using PSPICE as well. For PSPICE simulation, any available standard SPICE software may be used, including the latest version OrCAD V10 Demo software. This feature allows the instructor to adopt a single laboratory manual for both types of experiments. **Simulations for Operational Amplifiers Using Electronics Workbench** James L. Antonakos, 1998 Appropriate as a supplement to op-amp and devices courses where Electronics Workbench is used. This hands-on electronics lab manual presents a variety of computer-based simulations of electronic circuitry, analog and digital, within an easy-to-learn and use virtual environment using Electronics Workbench. **Practical Analysis of Amplifier Circuits Through Experimentation** Lorne MacDonald, 1975 Lab Manual to Accompany Op-Amps and Linear Integrated Circuits Ramakant A. Gayakwad, 1999-08-01 This lab manual accompanies Gayakwad's *Op Amps and Linear Integrated Circuits*. Laboratory Manual for Electronic Devices and Circuits David A. Bell, 2001 This lab manual accompanies *Electronic Devices and Circuits* 4e. **Laboratory Manual for Microelectronic Circuits** Kenneth C. Smith, Adel S. Sedra, 1991 This manual contains approximately 35 experiments. It follows the organization of the text and includes experiments for all major topics. To help instructors choose and prepare for the experiments, this manual identifies the core experiments all students should perform.

and includes manufacturers data sheets for the most common components 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 Design of Test Circuits for BJT s and FET s and Design of FET Ring Oscillators Design and Characterization of Emitter Coupled Transistor Pairs Tuned Amplifier and Oscillator Design of Am Radio Frequency Transmitter and Receiver Design of Oscillators Using Op Amps Current Mirrors and Active Loads Sheet Resistance Design of Analog Fiber Optic Transmission System Digital Voltmeter 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 *Operational Amplifiers with Linear Integrated Circuits* William D. Stanley, 1989 Focusing on applications this book develops readers ability to analyze model and predict the performance of operational amplifiers and related linear circuits as well as design the various circuit functions to perform specified operations It studies a few widely used and time tested devices in detail and builds upon basic principles to establish a foundation for understanding and adapting to new technology and developments Chapter topics cover general amplifier concepts ideal operational amplifier analysis and design operational amplifier ac dc effects and limitations linear operational amplifier circuits comparators oscillators and waveform generators active filters rectifier diode and power circuits analog to digital and digital to analog conversion miscellaneous circuits For practicing design engineers technologists and technicians

Experiments with Integrated Circuits Richard J. Higgins, 1983 **Electronic Circuit Analysis and Design** Donald A. Neamen, 2001 This junior level electronics text provides a foundation for analyzing and designing analog and digital

electronic circuits Computer analysis and design are recognized as significant factors in electronics throughout the book The use of computer tools is presented carefully alongside the important hand analysis and calculations The author Don Neamen has many years experience as an engineering educator and an engineer His experience shines through each chapter of the book rich with realistic examples and practical rules of thumb The book is divided into three parts Part 1 covers semiconductor devices and basic circuit applications Part 2 covers more advanced topics in analog electronics and Part 3 considers digital electronic circuits

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