

## 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*.

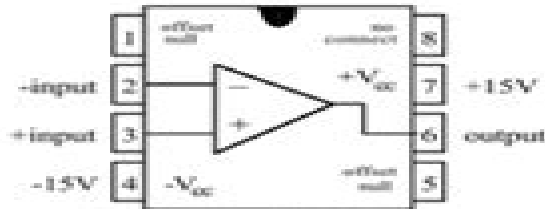


Figure 1: Pinout for the 741 op-amp.

### 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.

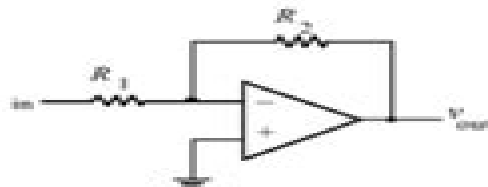


Figure 2: The inverting amplifier.

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

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

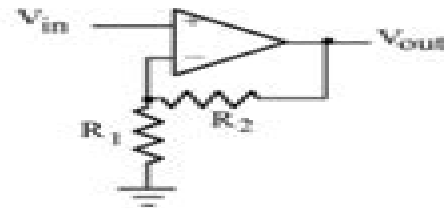


Figure 3: The noninverting amplifier.

### 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.

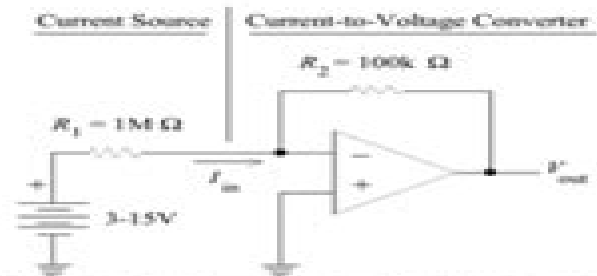


Figure 4: Current source with current-to-voltage converter.

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

**L. K. Maheshwari, M. M. S. Anand**



## Lab Manual For Various Op Amp Circuits:

**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. **ELECTRONICS LAB MANUAL (VOLUME 2)** NAVAS, K. A., 2018-10-01 This book is evolved from the experience of the author who taught all lab courses in his three decades of teaching in various universities in India. The objective of this lab manual is to provide information to undergraduate students to practice experiments in electronics laboratories. This book covers 118 experiments for linear analog integrated circuits lab, communication engineering lab, power electronics lab, microwave lab, and optical communication lab. The experiments described in this book enable the students to learn various analog integrated circuits and their functions, analog and digital communication techniques, power electronics circuits and their functions, microwave equipment and components, optical communication devices. This book is intended for the B.Tech students of Electronics and Communication Engineering, Electrical and Electronics Engineering, Biomedical Electronics, Instrumentation and Control, Computer Science and Applied Electronics. It is designed not only for engineering students but can also be used by B.Sc., M.Sc., Physics and Diploma students. **KEY FEATURES** Contains aim, components and equipment required, theory, circuit diagram, pin-outs of active devices, design tables, graphs, alternate circuits, and troubleshooting techniques for each experiment. Includes viva voce and examination questions with their answers. Provides exposure on various devices. **TARGET AUDIENCE** B.Tech, Electronics and Communication Engineering, Electrical and Electronics Engineering, Biomedical Electronics, Instrumentation and Control, Computer Science and Applied Electronics, B.Sc., M.Sc., Physics, Diploma Engineering. **Laboratory Manual for Introductory Electronics Experiments** L. K. Maheshwari, M. M. S. Anand, 1979 **Laboratory Manual for Nonlinear Physics with Maple for Scientists and Engineers** Richard H. Enns, George McGuire, 1997-03-20 Science demands that all theory must be checked by experiment. Richard Feynman, Nobel Laureate in physics 1965, reminds us in a wonderful quote that 'The test of all knowledge is experiment. Experiment is the sole judge of scientific truth.' 1 It is because nonlinear physics can be so profoundly counter-intuitive that these laboratory investigations are so important. This manual is designed to be used with the text *Nonlinear Physics with Maple for Scientists and Engineers*. Understanding is enhanced when experiments are used to check so please attempt as many of the activities as you can. As you perform theory, these activities we hope that

you will be amazed and startled by strange behavior intrigued and terrorized by new ideas and be able to amaze your friends as you relate your strange sightings Remember that imagination is just as important as knowledge so exercise yours whenever possible But please be careful as nonlinear activities can be addicting can provide fond memories and can awaken an interest that lasts a lifetime Although it has been said that a rose by any other name is still a rose with apologies to Shakespeare the authors of this laboratory manual have in an endeavor to encourage the use of these nonlinear investigations called them experimental activities rather than experiments A number of design innovations have been introduced

A Laboratory Manual for Pulse-Width Modulated DC-DC Power Converters Marian K. Kazimierczuk, Agasthya Ayachit, 2015-08-13 Designed to complement a range of power electronics study resources this unique lab manual helps students to gain a deep understanding of the operation modeling analysis design and performance of pulse width modulated PWM DC DC power converters Exercises focus on three essential areas of power electronics open loop power stages small signal modeling design of feedback loops and PWM DC DC converter control schemes and semiconductor devices such as silicon silicon carbide and gallium nitride Meeting the standards required by industrial employers the lab manual combines programming language with a simulation tool designed for proficiency in the theoretical and practical concepts Students and instructors can choose from an extensive list of topics involving simulations on MATLAB SABER or SPICE based platforms enabling readers to gain the most out of the prelab inlab and postlab activities The laboratory exercises have been taught and continuously improved for over 25 years by Marian K Kazimierczuk thanks to constructive student feedback and valuable suggestions on possible workroom improvements This up to date and informative teaching material is now available for the benefit of a wide audience Key features Includes complete designs to give students a quick overview of the converters their characteristics and fundamental analysis of operation Compatible with any programming tool MATLAB Mathematica or Maple and any circuit simulation tool PSpice LTSpice Synopsys SABER PLECS etc Quick design section enables students and instructors to verify their design methodology for instant simulations Presents lab exercises based on the most recent advancements in power electronics including multiple output power converters modeling current and voltage mode control schemes and power semiconductor devices Provides comprehensive appendices to aid basic understanding of the fundamental circuits programming and simulation tools Contains a quick component selection list of power MOSFETs and diodes together with their ratings important specifications and Spice models

*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

**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

A First Lab in Circuits and Electronics Yannis P. Tsididis, 2018-03-07 Written by an award winning educator and researcher the sixteen experiments in this book have been extensively class tested and fine tuned This lab manual like no other provides an exciting active exploration of concepts and measurements and encourages students to tinker experiment and become creative on their own This benefits their further study and subsequent professional work The manual includes self contained background for all electronics experiments so that the lab can be run concurrently with any circuits or electronics course at any level It uses circuits in real applications which students can relate to in order to motivate them and convince them that what they learn is for real As a result the material is not only made interesting but helps motivate further study in circuits electronics communications and semiconductor devices

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**Laboratory Manual for Electronics via Waveform Analysis** Edwin C. Craig, 2012-12-06 To the Instructor The purpose of this laboratory manual is not just to help students to set up electronic circuits that function as they should The important thing is the electronic concepts that the student learns in the process of setting up and studying these circuits Quite often a student learns more electronics when he has to trouble shoot a circuit than when the circuit performs as it should when first built It is unlikely that any students would be able to complete all of these experiments in one semester The author believes that all students should have laboratory experiences with power supplies amplifiers oscillators and integrated circuits Additionallabomtory experiments should be de termined by the instructor Therefore you can choose those that you want done Some students are more efficient in the labomtory than others Therefore some would be able to complete more exper iments in a semester than

others Also many of these experiments cannot be completed in one two hour laboratory period If space is available the circuits could be left intact from one period to the next Or you might want to select steps in an experiment that you want to delete Neither the values of the components or the magnitudes of the power supplies as given in the instructions are critical Therefore you could in most cases change them if the ones recommended are not available Industrial Electronic Circuits Laboratory Manual Farzin Asadi,2024-01-06 Industrial Electronics is a branch of electronics which is used for industrial applications It plays a crucial role in the efficient and smooth operation of manufacturing facilities and industrial processes This book introduces the commonly used building blocks in industrial electronics The reader learns which circuit can be used for which application It is suitable as a laboratory manual for courses like industrial electronics or power electronics

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web réservé au groupe pour une durée fixe chaque accès redemande la quête l antre de gobelet 1 30 le capitaine coupe jarret 25 50 les galinettes 50 80 les abîmes 80 120 l antre des illusionnistes 120 150 le marécage de

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web sharks are one of the oceans top predators they can differ in shapes and sizes from the largest whale sharks to the smallest dwarf lantern sharks

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web 2 days ago diana nyad centre right and her trainer bonnie stoll hug as nyad walks ashore in florida after her 2013 swim photograph j pat carter ap as a member of the sag aftra actors union the

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web oct 17 2023 shark any of numerous species of cartilaginous fishes that make up the order selachii class chondrichthyes most species have a tough skin that is dull gray in color and roughened by toothlike scales the mouth contains sharp triangular teeth sharks lack a swim bladder and must swim to keep from sinking

sharks explained national geographic - May 16 2023

web find out about the world s biggest and fastest sharks how sharks reproduce and how some species are at risk of extinction common name sharks type fish size 7 inches to 32 8 feet

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web jul 4 2022 sharks are a diverse group of often misunderstood fish learn more about these predators including their evolution habitat diet and behavior

12 shark facts that may surprise you noaa fisheries - Aug 07 2022

web jul 17 2018 1 sharks do not have bones sharks use their gills to filter oxygen from the water they are a special type of fish known as elasmobranchs which translates into fish made of cartilaginous tissues the clear gristly stuff that your ears and nose tip are made of this category also includes rays sawfish and skates

[\*osama a bülent ecevit university zonguldak türkiye linkedin\*](#) - Aug 27 2021

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web shark simulator is a wtf physics sandbox play as ed the shark and give those tourists a vacation they will remember shark simulator is about causing as much trouble as you can on a paradise island wreck an entire city using nothing but your jaw at least in

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web oct 18 2023 after heavy flooding in the 1990s six bull sharks crossed over from a nearby river into a lake at carbrook golf club in queensland australia and remained at the course for almost 20 years

[\*bruins 3 1 sharks oct 19 2023 game recap espn\*](#) - Jul 26 2021

web 1 day ago 3 1 1 expert recap and game analysis of the boston bruins vs san jose sharks nhl game from october 19 2023 on espn

[\*sharks smithsonian ocean\*](#) - Feb 13 2023

web there are more than 500 species of sharks swimming in the world s ocean yet when most people think of these cartilaginous fish a single image comes to mind a large sharp toothed and scary beast that generalization does sharks a huge disservice as they have far more variety than that

[\*bookeder com online otel rezervasyonları\*](#) - Oct 29 2021

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uygun bir şekilde seçebilirsiniz önceden beş yıldızlı bir otel rezervasyonu yapın tek gecelik oda kiralayın veya yerinde yakınimdaki rezervasyonları arayın İnceleme bölümümüzü kontrol etmekten çekinmeyin

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web each order tells us about the biology physical characteristics and behavior of sharks in that order provided here are a number of sharks within each of the eight 8 orders to further your learning about these truly amazing animals we highly recommend sharks of the world

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web sharks are a group of elasmobranch fish characterized by a cartilaginous skeleton five to seven gill slits on the sides of the head and pectoral fins that are not fused to the head modern sharks are classified within the clade selachimorpha or selachii and are the sister group to the batoida rays and kin

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web dec 9 2017 0 00 10 46 some sharks reach gigantic sizes such as the famous megalodon and like this one there are others that make up the top 10 of the largest sharks that inhabi

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web white sharks may live for more than 70 years and they do not start breeding until they are at least 20 years old individuals grow to an average of 15 feet 4 6 meters in length though specimens exceeding 20 feet 6 meters and weighing up to 5 000 pounds 2 268 kilograms have been recorded no one has ever reliably observed white sharks

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web 2 days ago sharks feared by most loved by some and hunted by many sharks are one of the most mysterious groups of creatures roaming the earth today defined as a fish with a full cartilaginous skeleton

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web there are over 1 000 species of sharks and rays with fossil records dating back 400 million years sharks have outlived the dinosaurs and many other forms of life currently on earth there are more than 1 000 species of sharks and rays with new species discovered every year these majestic top predators that are so essential to the natural

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