



Experiment 2: Differential Amplifier

Note: Lab reports must be completed and submitted at the end of each week. The report should include the title of the experiment, date, lab location, your name and ID, and the equipment and electronic components used. Include also a brief procedure on how the experiment was performed, data obtained and a brief conclusion. Please also include all required graphs.

I. Introduction

Differential Amplifiers are widely used as input stage for almost all Op-Amps. The Differential Amplifier is considered the most used building block in analogue integrated-circuit design. This experiment focuses on the basic MOSFET Differential Amplifier shown in Fig. 1.

II. Objectives

1. Design differential amplifier circuit
2. Design current source circuit to bias differential amplifier circuit
3. Analyze the differential amplifier gain and common-mode rejection ratio (CMRR)

III. Recommended reading materials

1. Donald A. Neamen text book, section 11.1 to 11.3 [1]
2. Materials as links in section VI in this manual

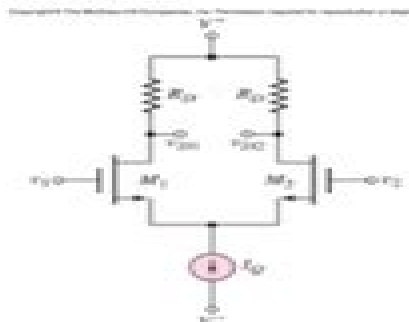


Fig 1. Basic NMOS differential amplifier

Signal And System Lab Manual

Rachel Sandford



Signal And System Lab Manual:

Anywhere-Anytime Signals and Systems Laboratory Nasser Kehtarnavaz, Fatemeh Saki, 2016-10-23 A typical undergraduate electrical engineering curriculum incorporates a signals and systems course. The widely used approach for the laboratory component of such courses involves the utilization of MATLAB to implement signals and systems concepts. This book presents a newly developed laboratory paradigm where MATLAB codes are made to run on smartphones which most students already possess. This smartphone based approach enables an anywhere anytime platform for students to conduct signals and systems experiments. This book covers the laboratory experiments that are normally covered in signals and systems courses and discusses how to run MATLAB codes for these experiments on smartphones thus enabling a truly mobile laboratory environment for students to learn the implementation aspects of signals and systems concepts. A zipped file of the codes discussed in the book can be acquired via the website http://sites.fastspring.com/bookcodes/product/SignalsSystemsBookcodes_Lab_Manual_Latest_Edition Dr. J. P. Goel, 2016-12-17 Lab E Manual Physics For XIIth Practicals

A Every student will perform 10 experiments 5 from each section 8 activities 4 from each section during the academic year. Two demonstration experiments must be performed by the teacher with participation of students. The students will maintain a record of these demonstration experiments. B Evaluation Scheme for Practical Examination One experiment from any one section 8 Marks Two activities one from each section 4 4 8 Marks Practical record experiments activities 6 Marks Record of demonstration experiments Viva based on these experiments 3 Marks Viva on experiments activities 5 Marks Total 30 Marks

Section A Experiments

- 1 To determine resistance per cm of a given wire by plotting a graph of potential difference versus current
- 2 To find resistance of a given wire using metre bridge and hence determine the specific resistance of its material
- 3 To verify the laws of combination series parallel of resistances using a metre bridge
- 4 To compare the emf of two given primary cells using potentiometer
- 5 To determine the internal resistance of given primary cells using potentiometer
- 6 To determine resistance of a galvanometer by half deflection method and to find its figure of merit
- 7 To convert the given galvanometer of known resistance and figure of merit into an ammeter and voltmeter of desired range and to verify the same
- 8 To find the frequency of the a c mains with a sonometer

Activities

- 1 To measure the resistance and impedance of an inductor with or without iron core
- 2 To measure resistance voltage AC DC current AC and check continuity of a given circuit using multimeter
- 3 To assemble a household circuit comprising three bulbs three on off switches a fuse and a power source
- 4 To assemble the components of a given electrical circuit
- 5 To study the variation in potential drop with length of a wire for a steady current
- 6 To draw the diagram of a given open circuit comprising at least a battery resistor rheostat key ammeter and voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram

Section B Experiments

- 1 To find the value of v for different values of u in case of a concave mirror and to find the focal length
- 2 To find the focal length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$
- 3 To find the focal

length of a convex mirror using a convex lens 4 To find the focal length of a concave lens using a convex lens 5 To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation 6 To determine refractive index of a glass slab using a travelling microscope 7 To find refractive index of a liquid by using i concave mirror ii convex lens and plane mirror 8 To draw the I V characteristic curve of a p n junction in forward bias and reverse bias 9 To draw the characteristic curve of a zener diode and to determine its reverse break down voltage 10 To study the characteristics of a common emitter npn or pnp transistor and to find out the values of current and voltage gains

Activities

- 1 To study effect of intensity of light by varying distance of the source on a L D R
- 2 To identify a diode a LED a transistor and IC a resistor and a capacitor from mixed collection of such items
- 3 Use of multimeter to i identify base of transistor ii distinguish between npn and pnp type transistors iii see the unidirectional flow of current in case of a diode and a LED iv check whether a given electronic component e g diode transistor or IC is in working order
- 4 To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab
- 5 To observe polarization of light using two Polaroids
- 6 To observe diffraction of light due to a thin slit
- 7 To study the nature and size of the image formed by i convex lens ii concave mirror on a screen by using a candle and a screen for different distances of the candle from the lens mirror
- 8 To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses

Suggested Investigatory Projects

- 1 To investigate whether the energy of a simple pendulum is conserved
- 2 To determine the radius of gyration about the centre of mass of a metre scale as a bar pendulum
- 3 To investigate changes in the velocity of a body under the action of a constant force and determine its acceleration
- 4 To compare effectiveness of different materials as insulators of heat
- 5 To determine the wavelengths of laser beam by diffraction
- 6 To study various factors on which the internal resistance emf of a cell depends
- 7 To construct a time switch and study dependence of its time constant on various factors
- 8 To study infrared radiations emitted by different sources using photo transistor
- 9 To compare effectiveness of different materials as absorbers of sound
- 10 To design an automatic traffic signal system using suitable combination of logic gates
- 11 To study luminosity of various electric lamps of different powers and make
- 12 To compare the Young's modulus of elasticity of different specimens of rubber and also draw their elastic hysteresis curve
- 13 To study collision of two balls in two dimensions
- 14 To study frequency response of i a resistor an inductor and a capacitor ii RL circuit iii RC circuit iv LCR series circuit

Laboratory Manual for Introductory Electronics Experiments L. K. Maheshwari, M. M. S. Anand, 1979 **U.S. Government Research Reports**, 1962 **Laboratory Manual for Exercise Physiology** G. Gregory Haff, Charles Dumke, 2018-03-13

Laboratory Manual for Exercise Physiology Second Edition With Web Study Guide provides guided opportunities for students to translate their scientific understanding of exercise physiology into practical applications in a variety of settings Written by experts G Gregory Haff and Charles Dumke the text builds upon the success of the first edition with full color images and the addition of several new interactive lab activities in the web study guide The revitalized second edition comprises 16 laboratory

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Crustacean Experimental Systems in Neurobiology Konrad Wiese, 2002-09-11 This book represents Part 2 of a venture started by distinguished neuroscientists to visualize and advertise the experimentally advantageous preparations of the crustacean nervous system The advantage is a combination of ease of dissection of key structures and the possibility of repeatedly accessing identified individual cells to measure the detailed response of the system to the experimentally imposed stimulus program Of course the neurosciences have to focus their research on the nervous system of mammals and man in order to understand the principles of function and their regulation if malfunctions occur This is in line with efforts to investigate nervous systems throughout the animal kingdom The specific potential of the encountered systems for exploratory research into hitherto unexplained functions of the brain may very well be a key to new insights The simply organized nervous system of crustaceans performs tasks of vital importance imposed on the organism Hence this system consists of a complete set of neural circuitry open for inspection and measurement by systematic investigation The first

volume The Crustacean Nervous System contains exhaustive reports on experimental work from all sectors of neuroscience using crayfish and lobsters This second volume Crustacean Experimental Systems in Neurobiology contains excellent reviews on significant topics in neurobiology Each section is introduced by short texts written by the section editors of the Crustacean Nervous System More prominent authors explain their approach to understanding the brain using a selection of experiments involving visual orientation neuromuscular systems and identification of principles of neural processing

Laboratory Manual for Anatomy & Physiology Michael G. Wood,2005 Michael G Wood s straightforward and complete lab manual guides students through hands on exercises that reinforce concepts they ve learned in their anatomy physiology lecture course The full color illustrations and step by step instructions are designed to help students visualize structures understand three dimensional relationships and comprehend complex physiological processes Many of the illustrations are the same as the illustrations by William Ober and Claire Garrison that appear in Martini Fundamentals of Anatomy Physiology Seventh Edition making this lab manual a perfect companion to that textbook

Cable and Wireless Networks Mário Marques da Silva,2018-09-03 Cable and Wireless Networks Theory and Practice presents a comprehensive approach to networking cable and wireless communications and networking security It describes the most important state of the art fundamentals and system details in the field as well as many key aspects concerning the development and understanding of current and emergent services In this book the author gathers in a single volume current and emergent cable and wireless network services and technologies Unlike other books which cover each one of these topics independently without establishing their natural relationships this book allows students to quickly learn and improve their mastering of the covered topics with a deeper understanding of their interconnection It also collects in a single source the latest developments in the area typically only within reach of an active researcher Each chapter illustrates the theory of cable and wireless communications with relevant examples hands on exercises and review questions suitable for readers with a BSc degree or an MSc degree in computer science or electrical engineering This approach makes the book well suited for higher education students in courses such as networking telecommunications mobile communications and network security This is an excellent reference book for academic institutional and industrial professionals with technical responsibilities in planning design and development of networks telecommunications and security systems and mobile communications as well as for Cisco CCNA and CCNP exam preparation

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An Introductory Guide to EC Competition Law and Practice Valentine Korah,1994

Proceedings of the International Conference on Signal Processing and Computer Vision (SIPCOV 2023) R Murugan,Ram Kumar Karsh,Tripti Goel,Rabul Hussain Laskar,2024-10-03 This is an open access book The main aim of this international conference is to bring researchers from all the esteemed institutes of the World Along with researchers the professionals and executives from Signal Processing

and Computer Vision are invited to share ideas and information about innovations focused on techniques for handling today's challenges. The conference aims to bring together leading researchers from academia and industries to exchange and share their experiences and results on all aspects of recent societal developments and applications. It will also provide an interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends and concerns as well as practical challenges encountered and solutions adopted in the fields of Signal Processing and Computer Vision applications such as Image and Video Processing, Medical Imaging and Technology, Communication System Engineering and IOT based System Design.

Air Pollution David H.F. Liu, Bela G. Liptak, 2018-04-24. Whether considered a threat to the health of humans in particular or of the ecosystem in general, the problem of air pollution affects us all. In addition to the 189 chemicals listed in the air toxins category of the 1990 Clean Air Act Amendments, smog, acid rain, ozone depletion and global warming all arise from air pollution. You can debate the prime causes: acid rain, excessive lumbering or changes in the weather, but the diminishing rainforest and the spreading desert speak for themselves. *Air Pollution* addresses the sources and results of these problems and how they influence the environment. It surveys all aspects of management including dispersion modeling, emission measurements, air quality and continuous emission monitoring, remote sensing and stack sampling. In addition, the book explores methods of reduction and control with particular attention to gaseous emission controls and odor control. This stellar resource addresses the prevention of pollution created by existing technology and the design of future zero emissions technology. A useful guide for engineers, students or anyone working for environmental protection. *Air Pollution* provides a solid foundation and presents a sound environmental philosophy. Bela G. Liptak speaks on Post Oil Energy Technology on the AT T Tech Channel.

Products and Priorities, 1944 **Catalogue of the Public Documents of the ... Congress and of All Departments of the Government of the United States for the Period from ... to ...** United States. Superintendent of Documents, Catalogue of the Public Documents of the [the Fifty-third] Congress [to the 76th Congress] and of All Departments of the Government of the United States United States. Superintendent of Documents, 1896 **Scientific and Technical Aerospace Reports**, 1995 *U.S. Government Research & Development Reports*, 1970 *The Signal Corps: The outcome (mid-1943 through 1945)*, 1956 **Computerworld**, 1977-10-31. For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site, Computerworld.com, twice monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

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