



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

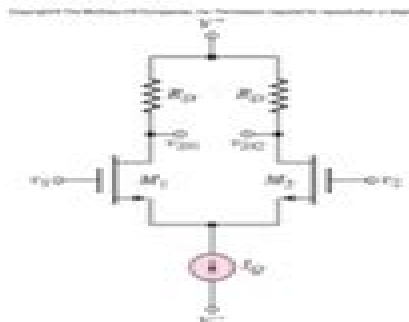


Fig 1. Basic NMOS differential amplifier

Signal And System Lab Manual

**George Raynor Thompson, Dixie R.
Harris**



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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 u 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

Activitie 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 I C 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 liquid 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

U.S. Government Research Reports ,1960 Laboratory Manual for Introductory Electronics Experiments L. K. Maheshwari,M. M. S. Anand,1979 **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.

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.

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

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 chapters that offer a total of 49 lab activities Each laboratory chapter provides a complete lesson including objectives definitions of key terms and background information that sets the stage for learning Each lab activity supplies step by step procedures providing guidance for those new to lab settings so that they may complete the procedures New features in this edition include the following An updated web study guide that contains 10 interactive lab activities to enhance student learning including video that helps simulate the experience of performing the labs in the real world A completely new laboratory chapter on high intensity fitness training that includes several popular intermittent fitness tests that students can learn to perform and interpret An appendix that helps estimate the oxygen cost of walking running and cycling Full color printing throughout In addition Laboratory Manual for Exercise Physiology Second Edition is thoroughly updated offering the following New research and information pertaining to each laboratory topic Current standards and norms Case studies to illuminate laboratory concepts Answers to the case studies to facilitate student learning Question sets to help students better understand laboratory concepts A lab activity finder that makes it easy to locate specific tests The web study guide for students provides lab activities with an enhanced learning experience Through this portal students and instructors can access electronic versions of individual data sheets group data sheets question sets case studies and their answers and 10 interactive lab activities Instructors also receive access to an image bank which includes most of the figures tables and photos from the book Organized in a logical progression the text builds upon the knowledge students acquire as they advance Furthermore the text provides multiple lab activities and includes an equipment list at the beginning of each activity allowing instructors flexibility in choosing the lab activities that will best work in their facility Laboratory Manual for Exercise Physiology Second Edition With Web Study Guide exposes students to a broad expanse of tests that are typically performed in an exercise physiology lab and that can be applied to a variety of professional settings As such the text serves as a high quality resource for basic laboratory testing procedures used in assessing human performance health and wellness

An Introductory Guide to EC Competition Law and Practice Valentine Korah, 1994 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's *Fundamentals of Anatomy Physiology* Seventh Edition, making this lab manual a perfect companion to that textbook.

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Human Factors Engineering Bibliographic Series, 1960 **Products and Priorities** United States. War Production Board. Division of Budget Administration, **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 **Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities**, 1985

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