

# Chapter 11

## Differential Amplifier Circuits

### 11.0 Introduction

Differential amplifier or *diff-amp* is a multi-transistor amplifier. It is the fundamental building block of analog circuit. It is virtually formed the differential amplifier of the input part of an operational amplifier. It is used to provide high voltage gain and high common mode rejection ratio. It has other characteristics such as very high input impedance, very low offset voltage and very low input bias current.

Differential amplifier can operate in two modes namely common mode and differential mode. Each type will have its output response illustrated in Fig. 11.1. Common mode type would result zero output and differential mode type would result high output. This shall mean the amplifier has high common mode rejection ratio.

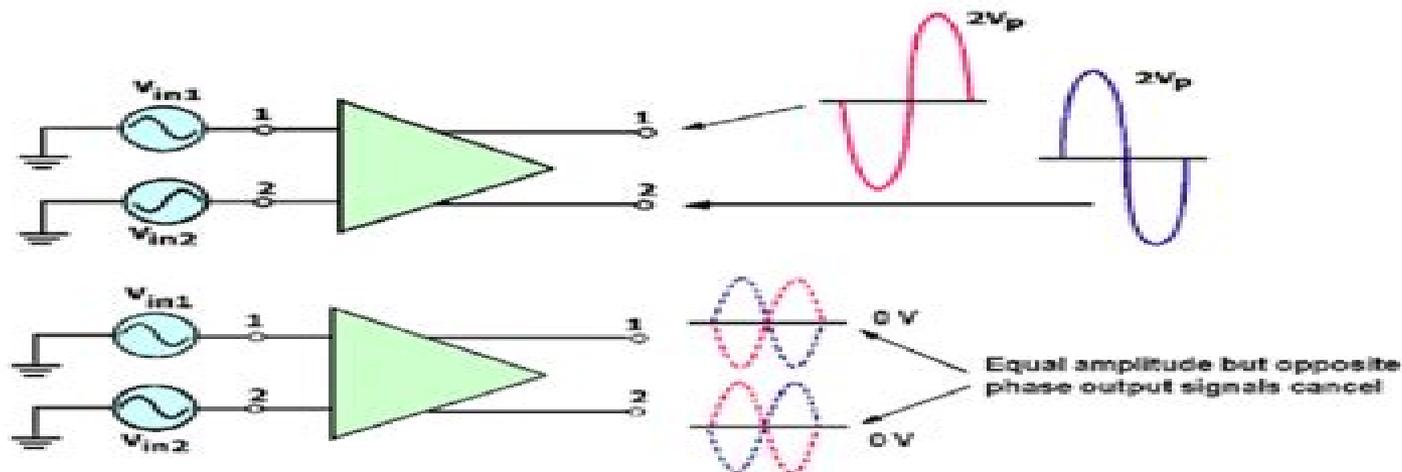


Figure 11.1: Differential amplifier shows differential inputs and common-mode inputs

# Chapter 11 Differential Amplifier Circuits

**Adel S. Sedra, Kenneth Carless Smith**



## Chapter 11 Differential Amplifier Circuits:

*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

*Fundamentals of Microelectronics* Behzad Razavi, 2013-04-08 Fundamentals of Microelectronics 2nd Edition is designed to build a strong foundation in both design and analysis of electronic circuits this text offers conceptual understanding and mastery of the material by using modern examples to motivate and prepare readers for advanced courses and their careers The books unique problem solving framework enables readers to deconstruct complex problems into components that they are familiar with which builds the confidence and intuitive skills needed for success

**CMOS Analog Design Using All-Region MOSFET Modeling** Márcio Cherem Schneider, Carlos Galup-Montoro, 2010-01-28 The essentials of analog circuit design with a unique all region MOSFET modeling approach

**Electronic Devices and Circuits** Theodore F. Bogart, 1990 Very Good No Highlights or Markup all pages are intact

IC User's Casebook Joseph J. Carr, 1988 Written for electronics hobbyists to give insight into how practical ICs work in actual circuits including analog and digital circuits Features more than 100 circuits you can design and build

**Electronic Circuit Guidebook: Op amps** Joseph J. Carr, 1997

**Electronics** Barun Raychaudhuri, 2023-06-15 Analog and digital electronics are an important part of most modern courses in physics Closely mapped to the current UGC CBCS syllabus this comprehensive textbook will be a vital resource for undergraduate students of physics and electronics The content is structured to emphasize fundamental concepts and applications of various circuits and instruments A wide range of topics like semiconductor physics diodes transistors amplifiers Boolean algebra combinational and sequential logic circuits and microprocessors are covered in lucid language and illustrated with many diagrams and examples for easy understanding A diverse set of questions in each chapter including multiple choice reasoning numerical and practice problems will help students consolidate the knowledge gained Finally computer simulations and project ideas for projects will help readers apply the theoretical concepts and encourage experiential learning

*Operational Amplifiers and Linear Integrated Circuits* Jefferson C. Boyce, 1988

**Op Amps and Linear Integrated Circuits** James M. Fiore, 2001 Divided into two major sections this guide s coverage is current and computer simulations via SPICE and Multisim are integrated throughout to provide experiences similar to those encountered in industry Fundamentals are stressed in order to set up readers for success Computer simulations are integrated as a means of verifying a by hand

calculation enabling readers to perform what if experiments test the validity of differing device models or investigate second order effects

**Microelectronics** Roger Thomas Howe, Charles Giona Sodini, 1997 Introduction to Electronics  
 Microelectronics at Junior Level This text describes device physics and circuit design in the context of modern microelectronics integrated circuit technology It introduces approaches to learning the core device physics and analog digital circuit concepts that make the subject more accessible to the current generation of students The authors have designed a concise concentrated presentation limiting coverage to only those concepts necessary for the understanding of devices and circuits

*Journal of the Audio Engineering Society* Audio Engineering Society, 2000 Directory of members published as pt 2 of Apr 1954 issue

**Electronic Devices and Circuits** Denton J. Dailey, 2001 This new text by Denton J Dailey covers both discrete and integrated components Among the many features that students will find helpful in understanding the material are the following Concept icons in the margins signify that topical coverage relates to other fields and areas of electronics such as communications microprocessors and digital electronics These icons help the reader to answer the question Why is it important for me to learn this Key terms presented in each chapter are defined in the margins to reinforce students understanding Chapter objectives introduce each chapter and provide students with a roadmap of topics to be covered

Electronic Devices and Circuit Theory Robert L. Boylestad, Louis Nashelsky, 1999 Boylestad Nashelsky uses a building block approach that ensures students learn the basic concepts before moving on to more advanced topics

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**3.5+5.25 IBM Electron Princ& Appli** Charles A. Schuler, Schuler, 1993-12 Semiconductor Circuit Approximations  
 Albert Paul Malvino, 1985 **Microelectronic Circuits** Adel S. Sedra, Kenneth Carless Smith, 1987 *International Journal of Electrical Engineering Education*, 1995 *Typical Oscilloscope Circuitry* Tektronix, inc., Beaverton, Or, 1968

**Electronic Devices and Circuit Analysis** Abraham Pallas, 1986 *The Complete Guide to High-end Audio* Robert Harley, 1998 Expanded and revised to cover recent developments this text should tell you what you need to know to become a better listener and buyer of quality high fidelity components New sections include super audio CD high resolution audio on DVD and single ended amplifiers

## **Chapter 11 Differential Amplifier Circuits** Book Review: Unveiling the Power of Words

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