

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.

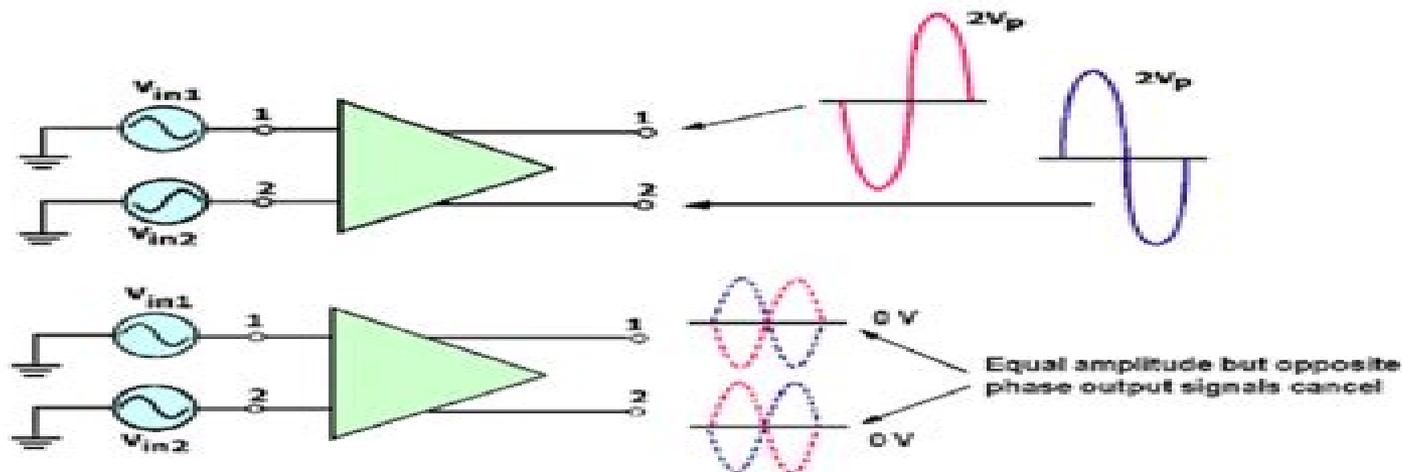


Figure 11.1: Differential amplifier shows differential inputs and common-mode inputs

Chapter 11 Differential Amplifier Circuits

Jefferson C. Boyce



Chapter 11 Differential Amplifier Circuits:

Decoding **Chapter 11 Differential Amplifier Circuits**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Chapter 11 Differential Amplifier Circuits**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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