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A circuit is said to be linear, if there



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exists a linear relationship between its input and the output. Similarly, a circuit is said to be non-linear, if there exists a non-linear relationship between its input and output. Op-amps can be used in both linear and non-linear applications. The following are the basic applications of op-amp –

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balanced output Linear Applications of  
Op-Amps: Inverting and non-inverting  
amplifier, Chapter 9 Analog to Digital  
and Digital to Analog Converters 91 to 9  
Results 1 - 16 of Linear Integrated  
Circuits and Applications for AU (SEM-IV  
EEE CBCS SCHEME REGULATION). by U.  
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## **DIGITAL AND LINEAR INTEGRATED CIRCUITS BY A.P.GODSE U.A ...**

An operational amplifier (often op amp or opamp) is a DC-coupled high-gain electronic voltage amplifier with a differential input and, usually, a single-ended output. In this configuration, an op amp produces an output potential



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(relative to circuit ground) that is typically 100,000 times larger than the potential difference between its input terminals.

## **Operational amplifier - Wikipedia**

5) Mention the characteristics of an ideal op-amp. 6) What happens when the common terminal of  $V_+$  and  $V_-$  sources

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is not grounded? 7) Define input offset current. State the reasons for the offset currents at the input of the op-amp. 8) Define CMRR and SVRR of an op-amp. 9) Justify the reasons for using current sources in integrated circuits.

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Operational Amplifier, also called as an Op-Amp, is an integrated circuit, which can be used to perform various linear, non-linear, and mathematical operations. An op-amp is a direct coupled high gain amplifier. You can operate op-amp both with AC and DC signals. This chapter discusses the characteristics and types of op-amps.

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This approach allows for an understanding of the signals from input to output. Op-Amps and Linear Integrated Circuits Sep 03, Pawan Dwivedi added it.

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circuits are generally manufactured in one of two ways: The device is either a hybrid, or is monolithic. In either case, the circuit can contain hundreds of components.

## **2.4: Op Amp Manufacture - Engineering LibreTexts**

Figure 93: Ideal op amp input-output



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characteristic There is a simple algorithm for the analysis of an op amp circuit This algorithm is valid only when there is some path from  $V_o$  to  $V_-$ , ie, negative feedback is being used to force the op amp to operate in its linear region

- (1) Assume that the input currents to the op amp are zero

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