

ETE-201

OPERATIONAL AMPLIFIERS

Note taken by: Turja Roy
ID: 2108052

Contents

1	Introduction	2
----------	---------------------	----------

1 Introduction

Definition 1.0.1: Operational Amplifier (Op-Amp)

An operational amplifier (op-amp) is a high-gain electronic voltage amplifier with a differential input and, usually, a single-ended output.

Definition 1.0.2: The Ideal Op-Amp

An ideal op-amp has the following properties:

- Infinite input impedance
- Zero output impedance
- Infinite open-loop gain
- Zero input offset voltage
- Infinite bandwidth

Definition 1.0.3: The Practical Op-Amp

A practical op-amp has the following properties:

- High input impedance
- Low output impedance
- High open-loop gain
- Low input offset voltage
- Limited bandwidth

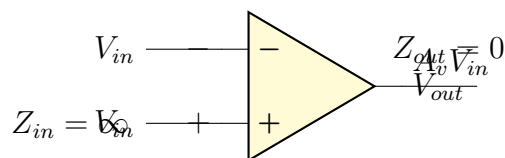


Figure 1

