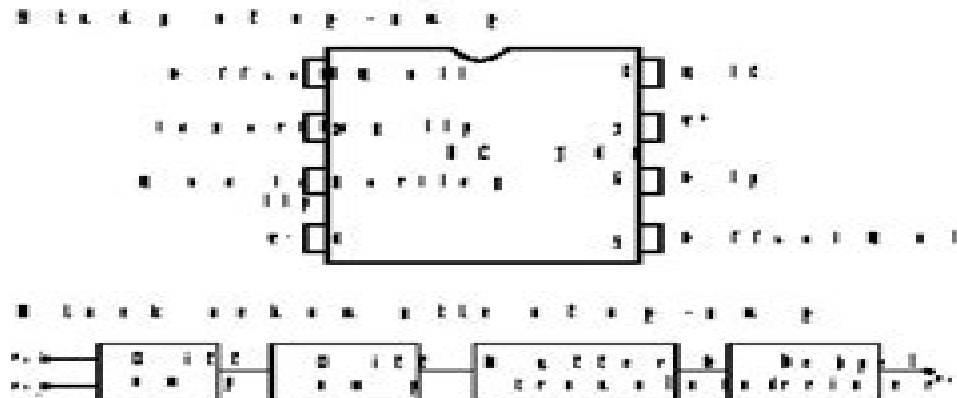


## STUDY OF OP-AMP

An operational amplifier or op-amp is a linear integrated circuit that has a very high voltage gain, high input impedance and low output impedance. Op-amp is basically a differential amplifier whose basic function is to amplify the difference between two input signals.

Op-amp has five basic terminals, that is, two input terminals, one o/p terminal and two power supply terminals. Pin2 is called the inverting input terminal and it gives opposite polarity at the output if a signal is applied to it. It produces a phase shift of  $180^\circ$  between input and output. Pin3 is called the non-inverting terminal that amplifies the input signal without inversion, i.e., there is no phase shift or i/p is in phase with o/p. The op-amp usually amplifies the difference between the voltages applied to its two input terminals. Two further terminals pins 7 and 4 are provided for the connection of positive and negative power supply voltages respectively. Terminals 1 and 5 are used for dc offset. The pin 8 marked NC indicates 'No Connection'.



The block diagram of op-amp shows 2 difference amplifiers, a buffer for less loading, a level translator for adjusting operating point to original level and o/p stage. An ideal op-amp should have the following characteristics:

1. Infinite bandwidth
2. infinite input resistance
3. infinite open loop gain
4. zero output resistance
5. zero offset

Op-amps have two operating configurations; open loop and closed loop. In open loop configuration, it can operate as a switch but gain is uncontrolled. In closed loop configuration, gain can be controlled by feedback resistance  $R_f$  and input resistance  $R_{in}$ .

# Linear Integrated Circuits Lab Manual

**AW Rasmussen**



## **Linear Integrated Circuits Lab Manual:**

Lab Manual to Accompany Op-Amps and Linear Integrated Circuits Ramakant A. Gayakwad, 1999-08-01 This lab manual accompanies Gayakwad's Op Amps and Linear Integrated Circuits *Lab Manual to Accompany Op-amps and Linear Integrated Circuits, Fourth Edition* Ramakant A. Gayakwad, 2000 *Instructor's solutions manual with transparency masters (includes lab manual results) to accompany Op-amps and linear integrated circuits, fourth edition, Ramakant A. Gayakwad* Ramakant A. Gayakwad, 2000 *ELECTRONICS LAB MANUAL (VOLUME 2)* NAVAS, K. A., 2018-10-01 This book is evolved from the experience of the author who taught all lab courses in his three decades of teaching in various universities in India. The objective of this lab manual is to provide information to undergraduate students to practice experiments in electronics laboratories. This book covers 118 experiments for linear analog integrated circuits lab, communication engineering lab, power electronics lab, microwave lab, and optical communication lab. The experiments described in this book enable the students to learn various analog integrated circuits and their functions, analog and digital communication techniques, power electronics circuits and their functions, microwave equipment and components, optical communication devices. This book is intended for the B.Tech students of Electronics and Communication Engineering, Electrical and Electronics Engineering, Biomedical Electronics, Instrumentation and Control, Computer Science and Applied Electronics. It is designed not only for engineering students but can also be used by BSc, MSc, Physics, and Diploma students. **KEY FEATURES** Contains aim, components, and equipment required, theory, circuit diagram, pin outs of active devices, design tables, graphs, alternate circuits, and troubleshooting techniques for each experiment. Includes viva voce and examination questions with their answers. Provides exposure on various devices. **TARGET AUDIENCE** B.Tech, Electronics and Communication Engineering, Electrical and Electronics Engineering, Biomedical Electronics, Instrumentation and Control, Computer Science and Applied Electronics, BSc, MSc, Physics, Diploma Engineering. **Linear Integrated Circuits Laboratory Manual** L. Malathi, 2020-04-09 This book is having core components of linear integrated circuits with brief description about the circuit, Design of the circuit, Sample experimental results, and observation layouts. Every experiment includes analysis part which will give the practice about the respective experiment in different aspect. Simulation experiments are executed in PSpice tools. **Op Amps and Linear Integrated Circuits for Technicians** Frank R. Dungan, 1992 *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. **Operational Amplifiers and Linear Integrated Circuits** Robert F. Coughlin, Frederick F. Driscoll, 2001 This popular book presents a clear and interesting approach for op-amp courses while examining four basic active filters.

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