

Linear Integrated Circuit

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Product Description

Linear Integrated Circuit

The production of circuits in integrated form dates from about 195o's, the technology made its first impact in the field of digital electronics and it is here that the most amazing improvements have taken place. Attention has naturally been devoted to the linear devices which lend themselves to an economic utilization the IC process because of their potentially large volume production requirements. Keeping up with the latest tools and methods in a field that develops as quickly as electronic measurements is challenging. This book is an attempt to address this problem by showcasing the linear integrated circuits components best applicable to the functional operations required by signal measuring and processing systems.

The entire book emphasizes doing rather than just reading. The use of linear integrated circuits has allowed the development of electronic systems that were previously impossible with discrete components due to their increased complexity and operational precision. Using integrated circuits and modules almost always results in better cost/performance, even in systems that previously relied on discrete components. There are a wide variety of uses for operational amplifiers, and the author has covered them in beginning. The rest of the book covers more modern topics including phase-locked loops, waveform generators, timers, four-quadrant multipliers, and monolithic integrated circuits modulators. This book explains how these devices work and how they can be used to fulfil a variety of tasks in signal monitoring and processing setups. Each chapter ends with a set of numerical exercises.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.

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- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a ‘know more’ section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including numerical examples are solved with systematic steps.

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