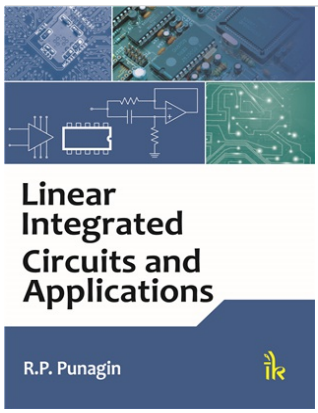
Book Information Sheet



Linear Integrated Circuits and Applications, 1/e

R.P. Punagin

2013 | 372 pp | Paperback | ISBN: 9789382332596 | Price: 355.00

About the Book

The book covers the syllabus prescribed for B.E. (E & C, Telecom, Biomedical, Instrumentation Technology and Medical Electronics). Care is taken to develop the subject logically so that the book could also be used by B.Sc. and diploma students. Neatly drawn diagrams, stepwise illustrations, and graded numerical examples, are included in every chapter to support the contents. Exercises and problems with answers are included at the end of each chapter.

The book emphasises on fundamental concepts, providing circuit description, circuit working and the circuit design for each circuit. Linear ICs developed in the recent past like PLL and voltage regulator ICs are also covered.

The book is illustrated with more than 300 neatly drawn diagrams and also includes more than 160 solved examples with answers.

Salient Features

- Direct and capacitor coupled Opamp amplifiers
- Frequency response and compensation to improve the performance of Opamp circuits
- Voltage and current sources, instrumentation amplifiers and precision rectifiers, limiting and clamping circuits
- Log and antilog amplifiers
- Non-linear circuit applications
- Power supply circuits and ICs such as 78XX series, LM723, 555 Timer
- A/D and D/A circuits and PLL principles.

Table of Contents

1. Operational Amplifier Fundamentals
2. OPAMPS as AC Amplifiers
3. OPAMPS Frequency Response and Compensation
4. OPAMPS Linear Applications (Part – 1)
5. OPAMPS Linear Applications (Part – 2)
6. Non-linear Circuit Applications
7. DC Voltage Regulators
8. Other Linear IC Applications

About the Author

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