

# OP Amps and Linear Integrated Circuits: Concepts and Applications



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## OP AMPS AND LINEAR INTEGRATED CIRCUITS: CONCEPTS AND APPLICATIONS

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Delmar/Cengage Learning India, 2010. Softcover. Book Condition: New. First edition. **Op Amps and Linear Integrated Circuits: Concepts and Applications** covers the fundamental and practical applications of amplifiers and linear integrated circuits while allowing readers to explore an array of interesting and useful topics such as non-linear circuits, oscillators, regulators, integrators and differentiators, active filters, and analog-to-digital and digital-to-analog conversion. The book's broad yet deep coverage presents a wide range of practical circuits and latest applications in sufficient detail to ensure a thorough knowledge of the circuit application. \* Quantitative problem sets are grouped in terms of analysis problems, design problems, computer problems, and challenge problems, enabling readers to target specific areas for review and study \* An entire chapter is devoted to a wide array of new and "cutting edge" devices including op amps for high-speed, high-power, high-voltage, and high-current applications, instrumentation amplifiers, operational transconductance amplifiers, and current feedback amplifiers \* Computer simulations are integrated into the book, often as a means of verifying calculation, enabling readers to perform "what-if" experiments, test the validity of differing device models, or to investigate second order effects 1. Introductory Concepts and Fundamentals 2. Operational Amplifier Internals 3. Negative Feedback 4. Basic Op Amp Circuits 5. Practical Limitations of Op Amp Circuits 6. Specialized Op Amps 7. Non-Linear Circuits 8. Voltage Regulation 9. Oscillators and Frequency Generators 10. Integrators and Differentiators 11. Active Filters 12. Analog to Digital to Analog Conversion \* Appendix A: Answers to Selected Review Questions \* Appendix B: Answers to Selected Problem Sets Printed Pages: 510.

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