



# Analog and Mixed-Signal Electronics

*Karl Stephan*

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# Analog and Mixed-Signal Electronics

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**Analog and Mixed-Signal Electronics** Karl Stephan

**A practical guide to analog and mixed-signal electronics, with an emphasis on design problems and applications**

This book provides an in-depth coverage of essential analog and mixed-signal topics such as power amplifiers, active filters, noise and dynamic range, analog-to-digital and digital-to-analog conversion techniques, phase-locked loops, and switching power supplies. Readers will learn the basics of linear systems, types of nonlinearities and their effects, op-amp circuits, the high-gain analog filter-amplifier, and signal generation. The author uses system design examples to motivate theoretical explanations and covers system-level topics not found in most textbooks.

- Provides references for further study and problems at the end of each chapter
- Includes an appendix describing test equipment useful for analog and mixed-signal work
- Examines the basics of linear systems, types of nonlinearities and their effects, op-amp circuits, the high-gain analog filter-amplifier, and signal generation

Comprehensive and detailed, *Analog and Mixed-Signal Electronics* is a great introduction to analog and mixed-signal electronics for EE undergraduates, advanced electronics students, and for those involved in computer engineering, biomedical engineering, computer science, and physics.

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