



TABLE OF CONTENTS

- 1 Operational Amplifier Fundamentals
- 2 Circuits with Resistive Feedback
- 3 Active Filters: Part I
- 4 Active Filters: Part II
- 5 Static Op Amp Limitations
- 6 Dynamic Op Amp Limitations
- 7 Noise
- 8 Stability
- 9 Nonlinear Circuits
- 10 Signal Generators
- 11 Voltage References and Regulators
- 12 D-A and A-D Converters
- 13 Nonlinear Amplifiers and Phase-Locked Loops

DESIGN WITH OPERATIONAL AMPLIFIERS AND ANALOG INTEGRATED CIRCUITS – 3RD EDITION

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Overview

Franco's **Design with Operational Amplifiers and Analog Integrated Circuits – 3rd Edition** is intended for a design-oriented course in applications with operational amplifiers and analog ICs. It also serves as a comprehensive reference for practicing engineers.

This new edition includes *enhanced pedagogy* (additional problems, more in-depth coverage of negative feedback, more effective layout), *updated technology* (current-feedback and folded-cascode amplifiers, and low-voltage amplifiers), and *increased topical coverage* (current-feedback amplifiers, switching regulators and phase-locked loops).

New to This Edition

- The author effectively blends rigorous theory with real-life applications. His emphasis on the physical picture helps students develop practical insight, a key to making sound design decisions. His descriptive and straightforward writing style flows with ease for the reader.
- Approximately **175** carefully worked *examples* scattered throughout the text, along with over **550** ingenious and thought-provoking end-of-chapter *problems*, help students develop an effective problem-solving methodology as well as sound engineering judgment.
- The topical and pedagogical organization is designed to take the reader from the simple to the more sophisticated, using a "building block" approach to tackle more advanced systems and concepts.
- The vast selection of topics, thorough analysis of practical circuits, and cleverly presented applications, prepare the student for employment in the real world and also serve as a precious reference for the practicing engineer.

- The extensive use of PSpice throughout the book reflects current industrial practices.
- The Website accompanying the book includes *downloadable software* for the design of *filters* (FILDES Program) and *phase-locked loops* (HCMOS Phase-Locked Loop Program), as well as the password-protected *Solutions Manual* for instructors using the book in the classroom.

Supplements

- Website accompanying **Design with Operational Amplifiers and Analog Integrated Circuits – 3rd Edition**: <http://www.mhhe.com/engcs/electrical/franco3/>