

The background of the cover is a vibrant aurora borealis (northern lights) display. The colors transition from deep green on the left to bright yellow and orange in the center, and finally to red and purple on the right. The aurora is set against a dark, starry night sky. A dark, semi-transparent rectangular box is centered on the cover, containing the title and edition information.

Fundamentals of Analog Circuits

SECOND EDITION

Floyd

| **Buchla**

Table of Contents

1. **Basic Concepts of Analog Circuits and Signals.**
 2. **Diodes and Applications.**
 3. **Bipolar Junction Transistors (BJTs).**
 4. **Field-Effect Transistors (FETs).**
 5. **Multistage, RF, and Power Amplifiers.**
 6. **Operational Amplifiers.**
 7. **Op-Amp Responses.**
 8. **Basic Op-Amp Circuits.**
 9. **Active Filters.**
 10. **Oscillators and Timers.**
 11. **Voltage Regulators.**
 12. **Special-Purpose Amplifiers.**
 13. **Communications Circuits.**
 14. **Data Conversion Circuits.**
 15. **Measurements and Control Circuits.**
- Appendix A: Data Sheets.**
- Appendix B: Derivations of Selected Equations.**
- Answers to Odd-Numbered Problems.**
- Glossary.**
- Index.**

Features

- **NEW - Updated and improved coverage of operational amplifiers and other analog circuits—**With references to manufacturer's Internet site included where appropriate.
 - Provides students with the most up-to-date information in the field. Ex.____
- **NEW - End-of-chapter Troubleshooter's Quiz—**Consists of 10-12 multiple-choice questions; answers are found in the back of each chapter.
 - Asks students to consider how a given fault will affect voltage, current, gain, etc. Ex.____
- **NEW - Key terms introduced in Chapter Opener—**Identified again within the text by blue font and margin icon.
 - Provides easy identification of key terms. Ex.____
- **NEW - PowerPoint presentations with troubleshooting emphasis are available for use with lab manual.**
 - Helps students review theoretical topics before experimenting in the lab. Ex.____
- **Coverage opened with a five-chapter introduction to discrete devices—**Includes diodes and transistor circuits, plus other topics often omitted in beginning devices texts such as RF amplifiers, transmission lines, transformer coupled amplifiers, direct coupled amplifiers, and power amplifiers.

- Gives students necessary background for understanding not commonly used integrated circuits covered in remainder of text. Ex.____
- **Operational amplifier with separate chapters on active filters and oscillators.**
- **Current topics of importance are explored including instrumentation amplifiers, isolation amplifiers, operational transconductance amplifiers (OTA), phase locked loops, A/D and D/A converters, transducers and more.**
- **Current is indicated by meters rather than arrows.**
 - Allows for easy integration into the curriculum of schools using either conventional current flow or electron flow. Ex.____
- **Chapter Openers include chapter objectives and introductions to the system applications.**
 - Sets goals for students to reference when studying. Ex.____
- **End-of-chapter summaries, glossaries, key formula lists, multiple-choice self-tests with answers, and problems with odd-numbered answers.**
 - Provides comprehensive review of chapter content. Ex.____

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