



Advanced Electronic Circuit Design

David J. Comer, Donald T. Comer

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Description:

Building on Fundamentals of Electronics Circuit Design, David and Donald Comer's new text, Advanced Electronic Circuit Design, extends their highly focused, applied approach into the second and third semesters of the electronic circuit design sequence. This new text covers more advanced topics such as oscillators, power stages, digital/analog converters, and communications circuits such as mixers, and detectors. The text also includes technologies that are emerging.

Advanced Electronic Circuit Design focuses exclusively on MOSFET and BJT circuits, allowing students to explore the fundamental methods of electronic circuit analysis and design in greater depth. Each type of circuit is first introduced without reference to the type of device used for implementation. This initial discussion of general principles establishes a firm foundation on which to proceed to circuits using the actual devices.

Features:

1. Provides concise coverage of several important electronic circuits that are not covered in a fundamentals textbook.
2. Focuses on MOSFET and BJT circuits, rather than offering exhaustive coverage of a wide range of devices and circuits.
3. Includes an Important Concepts summary at the beginning of each section that direct the reader's attention to these key points.
4. Includes several Practical Considerations sections that relate developed theory to practical circuits.

Instructor Supplements:

ISBN SUPPLEMENT DESCRIPTION Online Solutions Manual

Brief Table of Contents:

1. Introduction
2. Fundamental Power Amplifier Stages
3. Advanced Power Amplification
4. Wideband Amplifiers
5. Narrowband Amplifiers
6. Sinusoidal Oscillators
7. Basic Concepts in Communications
8. Amplitude Modulation Circuits
9. Angle Modulation Circuits
10. Mixed-Signal Interfacing Circuits
11. Basic Concepts in Filter Design
12. Active Synthesis
13. Future Directions

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