



# Intuitive Analog Circuit Design, Second Edition

By Marc Thompson

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## Intuitive Analog Circuit Design, Second Edition By Marc Thompson

*Intuitive Analog Circuit Design* outlines ways of thinking about analog circuits and systems that let you develop a feel for what a good, working analog circuit design should be. This book reflects author Marc Thompson's 30 years of experience designing analog and power electronics circuits and teaching graduate-level analog circuit design, and is the ideal reference for anyone who needs a straightforward introduction to the subject.

In this book, Dr. Thompson describes intuitive and "back-of-the-envelope" techniques for designing and analyzing analog circuits, including transistor amplifiers (CMOS, JFET, and bipolar), transistor switching, noise in analog circuits, thermal circuit design, magnetic circuit design, and control systems. The application of some simple rules of thumb and design techniques is the first step in developing an intuitive understanding of the behavior of complex electrical systems.

Introducing analog circuit design with a minimum of mathematics, this book uses numerous real-world examples to help you make the transition to analog design. The second edition is an ideal introductory text for anyone new to the area of analog circuit design.

- LTSPICE files and PowerPoint files available online to assist readers and instructors in simulating circuits found in the text
- Design examples are used throughout the text, along with end-of-chapter examples
- Covers real-world parasitic elements in circuit design and their effects

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## Intuitive Analog Circuit Design, Second Edition By Marc Thompson Bibliography

- Sales Rank: #512519 in Books
- Published on: 2013-12-06
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x 1.44" w x 7.52" l, .0 pounds
- Binding: Paperback
- 722 pages

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## **Editorial Review**

### Review

"...an excellent book for an advanced class in electrical engineering or for analog-circuit designers who want to learn quickly about analog circuits and apply that knowledge to designing and building real circuits."--**IEEE Electrical Insulation Magazine, Jan-Feb 2015**

### About the Author

Dr. Thompson specializes in custom R/D, analysis, and failure investigations into multi-disciplinary electrical, magnetic, electromechanical and electronic systems at Thompson Consulting, Inc. (Harvard MA).

The author is also Teaching Professor of Electrical and Computer Engineering at Worcester Polytechnic Institute. He teaches graduate-level and undergraduate seminars in analog, power quality, power electronics, electromechanics, electric motors, rotating machinery, and power distribution for high-tech companies. He has taught for University of Wisconsin-Madison, covering classes in electric motors, electromechanical systems, power electronics and magnetic design.

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