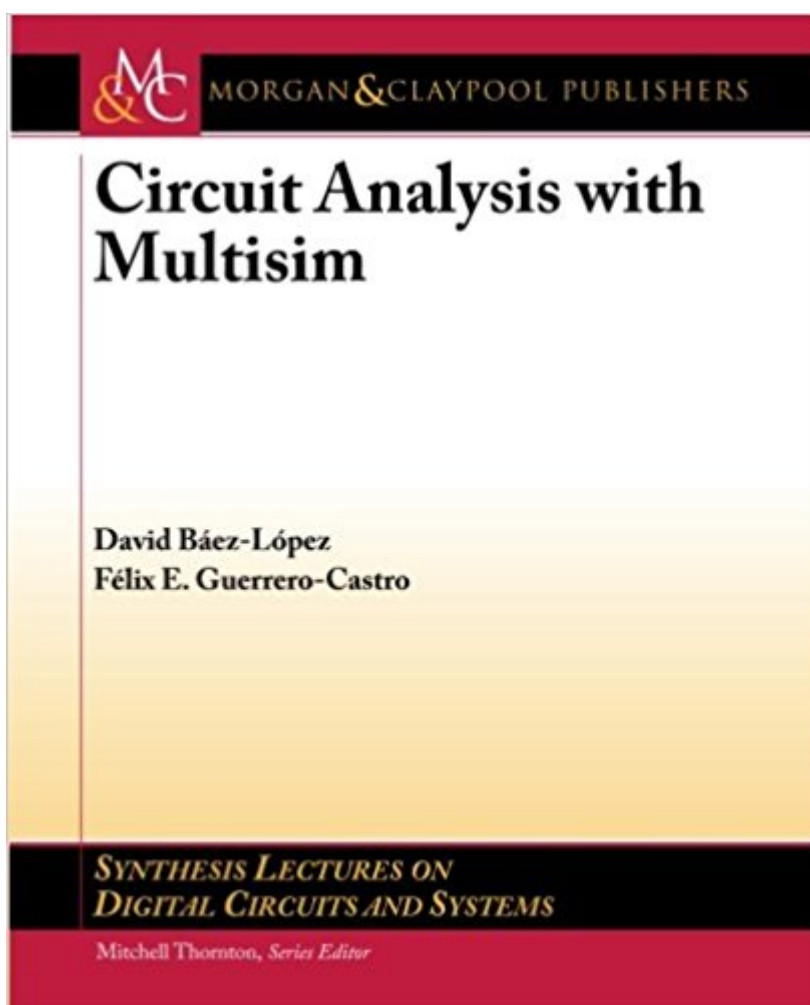




**Ebook Directory**  
the best source of ebook

The book was found

# Circuit Analysis With Multisim (Synthesis Lectures On Digital Circuits And Systems)



## Synopsis

This book is concerned with circuit simulation using National Instruments Multisim. It focuses on the use and comprehension of the working techniques for electrical and electronic circuit simulation. The first chapters are devoted to basic circuit analysis. It starts by describing in detail how to perform a DC analysis using only resistors and independent and controlled sources. Then, it introduces capacitors and inductors to make a transient analysis. In the case of transient analysis, it is possible to have an initial condition either in the capacitor voltage or in the inductor current, or both. Fourier analysis is discussed in the context of transient analysis. Next, we make a treatment of AC analysis to simulate the frequency response of a circuit. Then, we introduce diodes, transistors, and circuits composed by them and perform DC, transient, and AC analyses. The book ends with simulation of digital circuits. A practical approach is followed through the chapters, using step-by-step examples to introduce new Multisim circuit elements, tools, analyses, and virtual instruments for measurement. The examples are clearly commented and illustrated. The different tools available on Multisim are used when appropriate so readers learn which analyses are available to them. This is part of the learning outcomes that should result after each set of end-of-chapter exercises is worked out. Table of Contents: Introduction to Circuit Simulation / Resistive Circuits / Time Domain Analysis -- Transient Analysis / Frequency Domain Analysis -- AC Analysis / Semiconductor Devices / Digital Circuits

## Book Information

Series: Synthesis Lectures on Digital Circuits and Systems

Paperback: 198 pages

Publisher: Morgan & Claypool Publishers; 1 edition (October 25, 2011)

Language: English

ISBN-10: 1608457567

ISBN-13: 978-1608457564

Product Dimensions: 7.5 x 0.4 x 9.2 inches

Shipping Weight: 15.8 ounces (View shipping rates and policies)

Average Customer Review: 3.3 out of 5 stars 3 customer reviews

Best Sellers Rank: #2,652,132 in Books (See Top 100 in Books) #72 in [Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits > Logic](#) #13427 in [Books > Computers & Technology > Computer Science](#) #28460 in [Books > Textbooks > Computer Science](#)

## Customer Reviews

Waste of my money. Blurry pictures/text and not at all what I expected as a reference.

I only wish the book could be more technical, but it does help on how to set various analysis techniques.

great resource - I wish I had this book before my first few electronics classes in which we started using Multisim

[Download to continue reading...](#)

Circuit Analysis with Multisim (Synthesis Lectures on Digital Circuits and Systems) Introduction to Embedded Systems: Using ANSI C and the Arduino Development Environment (Synthesis Lectures on Digital Circuits and Systems) Integrated circuit devices and components (Integrated-circuit technology, analog and logic circuit design, memory and display devices) Winter Circuit (Show Circuit Series -- Book 2) (The Show Circuit) Selected Topics in RF, Analog and Mixed Signal Circuits and Systems (Tutorials in Circuits and Systems) Handbook of Reagents for Organic Synthesis: Reagents for Heteroarene Synthesis (Hdbk of Reagents for Organic Synthesis) Landmarking and Segmentation of 3D CT Images (Synthesis Lectures on Biomedical Engineering Synthesis Lectu) Integrated Circuit Design: International Version: A Circuits and Systems Perspective CMOS Digital Integrated Circuits: A First Course (Materials, Circuits and Devices) Summer Circuit (Show Circuit Series -- Book 1) The A Circuit (An A Circuit Novel Book 1) Off Course: An A Circuit Novel (The A Circuit) My Favorite Mistake: An A Circuit Novel (The A Circuit) Rein It In: An A Circuit Novel (The A Circuit) Digital Logic Circuit Analysis and Design Black & Decker Advanced Home Wiring, Updated 4th Edition: DC Circuits \* Transfer Switches \* Panel Upgrades \* Circuit Maps \* More Designing Amplifier Circuits (Analog Circuit Design) Digital Integrated Circuits: Analysis and Design, Second Edition CMOS Digital Integrated Circuits Analysis & Design Advanced Organic Chemistry: Part B: Reaction and Synthesis: Reaction and Synthesis Pt. B

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)