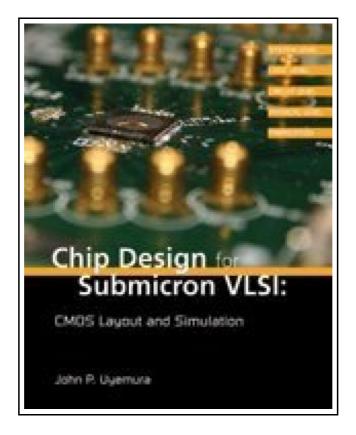
Chip Design for Submicron VLSI: CMOS Layout and Simulation



Filesize: 7.41 MB

Reviews

It is great and fantastic. Better then never, though i am quite late in start reading this one. Your life period will likely be transform once you comprehensive reading this book.

(Blanca Davis)

CHIP DESIGN FOR SUBMICRON VLSI: CMOS LAYOUT AND SIMULATION



Cengage Learning, 2005. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Chapter 1. Installing the Microwind Software 1.1 Getting Started 1.2 Exploring Microwind 1.3 Installing Dsch 1.4 Plan of the Book 1.5 Some Important Details 1.6 References Chapter 2. Views of a Chip 2.1 The Design Hierarchy 2.2 Integrated Circuit Layers 2.3 Photolithography and Patter Transfer 2.4 Planarization 2.5 Electrical Characteristics 2.6 Silicon Characteristics 2.7 Overview of Layout Design 2.8 References 2.9 Exercises Chapter 3. CMOS Technology 3.1 Meet the MOSFETs 3.2 CMOS Fabrication 3.3 Submicron CMOS Processes 3.4 Process Technologies in Microwind 3.5 Masks and Layout 3.6 The Microwind MOS Generator 3.7 Chapter Summary and Roadmap 3.8 References 3.9 Exercises Chapter 4. Using a Layout Editor 4.1 Lambda-Based Layout 4.2 Rectangles and Polygons 4.3 The MOS Generator Revisited 4.4 Summary 4.5 Exercises Chapter 5. CMOS Design Rules 5.1 Types of Rules 5.2 The SCMOS Design Rule Set 5.3 FET Layout 5.4 References 5.5 Exercises Chapter 6. MOSFET 6.1 MOSFET Operation 6.2 MOSFET Switch Models 6.3 The Square Law Model 6.4 MOSFET Parasitics 6.5 Comments on Devise Layout 6.6 References 6.7 Exercises Chapter 7. MOSFET Modeling with SPICE 7.1 SPICE Levels 7.2 MOSFET Modeling in Microwind 7.3 Circuit Extraction 7.4 Microwind Level 3 and BSIM4 Equations 7.5 References 7.6 Exercises Chapter 8. CMOS Logic Gates 8.1 The Inverter 8.2 NAND and NOR Gates 8.3 Complex Logic Gates 8.4 The Microwind Compile Command 8.5 Tri-State Circuits 8.6 Large FETs 8.7 Transmission Gates and Pass Logic 8.8 References 8.9 Exercises Chapter 9. Standard Cell Design 9.1 Cell Hierarchies 9.2 Cell Libraries 9.3 Library Entries 9.4 Cell Shapes and Floor Planning 9.5 References 9.6 Exercises Chapter 10. Storage Elements 10.1 SR Latch 10.2 Bit-level Register 10.3 D-type Flip Flop 10.4 Dynamic DFF 10.5 The Static RAM Cell...



Read Chip Design for Submicron VLSI: CMOS Layout and Simulation Online Download PDF Chip Design for Submicron VLSI: CMOS Layout and Simulation

Relevant eBooks



Grandpa Spanielson's Chicken Pox Stories: Story #1: The Octopus (I Can Read Book 2)

HarperCollins, 2005. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+Customer Service! Summary: Foreword by Raph Koster. Introduction. I. EXECUTIVE CONSIDERATIONS. 1. The Market. Do We Enter the Market? Basic Considerations. How...

Save PDF »



The Web Collection Revealed, Premium Edition: Adobe Dreamweaver CS6, Flash CS6, and Photoshop CS6 (Stay Current with Adobe Creative Cloud)

Cengage Learning, 2012. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: You can now maximize and integrate the design and development power of Adobe Creative Suite 6 with WEB...

Save PDF »



Star Flights Bedtime Spaceship: Journey Through Space While Drifting Off to Sleep

CreateSpace Independent Publishing Platform, 2013. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: "Star Flights Bedtime Spaceship" is a charming and fun story with the purpose to help children...

Save PDF »



Maisy's Christmas Tree

Candlewick, 2014. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: The final scene of the gang caroling around the tree, complete with paper crowns from British Christmas crackers, is...

Save PDF »



The Clever Detective Boxed Set (a Fairy Tale Romance): Stories 1, 2 and 3 (Paperback)

Createspace, United States, 2012. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****. After six years as a private investigator, Stacey Alexander has the strangest day...

Save PDF »