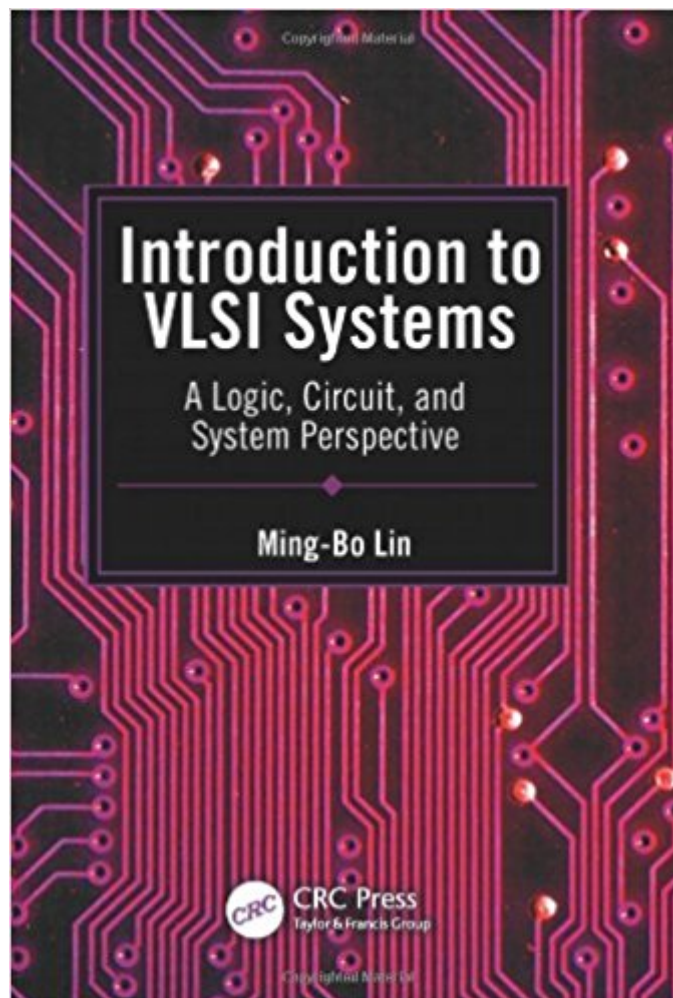




Ebook Directory
the best source of ebook

The book was found

Introduction To VLSI Systems: A Logic, Circuit, And System Perspective



Synopsis

With the advance of semiconductors and ubiquitous computing, the use of system-on-a-chip (SoC) has become an essential technique to reduce product cost. With this progress and continuous reduction of feature sizes, and the development of very large-scale integration (VLSI) circuits, addressing the harder problems requires fundamental understanding of circuit and layout design issues. Furthermore, engineers can often develop their physical intuition to estimate the behavior of circuits rapidly without relying predominantly on computer-aided design (CAD) tools. Introduction to VLSI Systems: A Logic, Circuit, and System Perspective addresses the need for teaching such a topic in terms of a logic, circuit, and system design perspective. To achieve the above-mentioned goals, this classroom-tested book focuses on: Implementing a digital system as a full-custom integrated circuit Switch logic design and useful paradigms that may apply to various static and dynamic logic families The fabrication and layout designs of complementary metal-oxide-semiconductor (CMOS) VLSI Important issues of modern CMOS processes, including deep submicron devices, circuit optimization, interconnect modeling and optimization, signal integrity, power integrity, clocking and timing, power dissipation, and electrostatic discharge (ESD) Introduction to VLSI Systems builds an understanding of integrated circuits from the bottom up, paying much attention to logic circuit, layout, and system designs. Armed with these tools, readers can not only comprehensively understand the features and limitations of modern VLSI technologies, but also have enough background to adapt to this ever-changing field.

Book Information

Hardcover: 915 pages

Publisher: CRC Press; 1 edition (November 28, 2011)

Language: English

ISBN-10: 143986859X

ISBN-13: 978-1439868591

Product Dimensions: 2 x 7.8 x 10.5 inches

Shipping Weight: 4 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #2,497,411 in Books (See Top 100 in Books) #93 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits > VLSI & ULSI #403

in Books > Computers & Technology > Programming > Software Design, Testing & Engineering > Logic #736 in Books > Engineering & Transportation > Engineering > Electrical & Electronics

> Circuits > Design

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

Introduction to VLSI Systems: A Logic, Circuit, and System Perspective Integrated circuit devices and components (Integrated-circuit technology, analog and logic circuit design, memory and display devices) Draw in Perspective: Step by Step, Learn Easily How to Draw in Perspective (Drawing in Perspective, Perspective Drawing, How to Draw 3D, Drawing 3D, Learn to Draw 3D, Learn to Draw in Perspective) Winter Circuit (Show Circuit Series -- Book 2) (The Show Circuit) Circuits, Interconnections, and Packaging for Vlsi (Addison-Wesley VLSI systems series) VLSI DESIGN SIMPLE AND LUCID EXPLANATION: vlsi design for students CMOS VLSI Design: A Circuits and Systems Perspective (4th Edition) CMOS VLSI Design: A Circuits and Systems Perspective CMOS VLSI Design: A Circuits and Systems Perspective (3rd Edition) Low-Power CMOS VLSI Circuit Design Integrated Circuit Design: International Version: A Circuits and Systems Perspective 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) Introduction to VLSI Circuits and Systems Introduction to VLSI Systems Logic Minimization Algorithms for VLSI Synthesis (The Springer International Series in Engineering and Computer Science) Digital Electronics: A Primer : Introductory Logic Circuit Design (Icp Primers in Electronics and Computer Science)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)