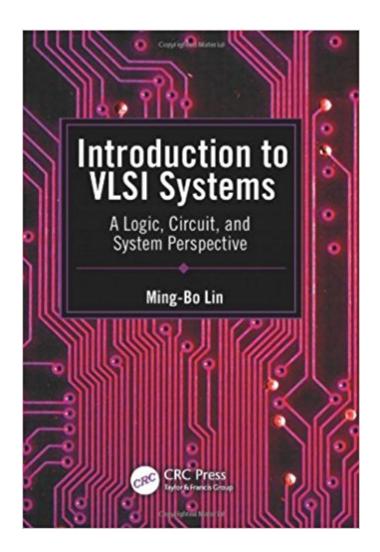
The book was found

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: #601,633 in Books (See Top 100 in Books) #26 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits > VLSI & ULSI #104 in Books > Computers & Technology > Programming > Software Design, Testing & Engineering > Logic #185 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits > VLSI & VLSI = 104 in

Design

Download to continue reading...

Introduction to VLSI Systems: A Logic, Circuit, and System Perspective Winter Circuit (Show Circuit Series -- Book 2) (The Show Circuit) Circuits, Interconnections, and Packaging for VIsi (Addison-Wesley VLSI systems series) CMOS VLSI Design: A Circuits and Systems Perspective (3rd Edition) CMOS VLSI Design: A Circuits and Systems Perspective VLSI Analog Signal Processing Circuits: Algorithm, Architecture, Modeling, and Circuit Implementation The Arts of VLSI Circuit Design: Symmetry Approaches Toward Zero PVT Sensitivity Circuit Engineering: The Beginner's Guide to Electronic Circuits, Semi-Conductors, Circuit Boards, and Basic Electronics Summer Circuit (Show Circuit Series -- Book 1) Designing Dynamic Circuit Response (Analog Circuit Design) 2015 Federal Circuit Yearbook: Patent Law Developments in the Federal Circuit Introduction to Logic: Propositional Logic, Revised Edition (3rd Edition) Introduction to VLSI Circuits and Systems Digital Electronics: A Primer : Introductory Logic Circuit Design (Icp Primers in Electronics and Computer Science) Logic Circuit Design (Saunders College Publishing Series in Electrical Engineering) High-Performance System Design: Circuits and Logic (IEEE Press Series on Microelectronic Systems) Apple Pro Training Series: Logic Pro 8 and Logic Express 8 Critical Thinking: Decision Making with Smarter Intuition and Logic! (Critical Thinking, Decision Making, Logic, Intuition) Set Theory (Studies in Logic: Mathematical Logic and Foundations) Logic: Propositional Logic (Quickstudy: Academic)

<u>Dmca</u>