Introduction to VLSI Circuits and Systems

By John P. Uyemura

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Presents modern CMOS logic circuits, fabrication, and layout in a cohesive manner that links the material together with the system-level considerations.
* Chapter on Verilog HDL allows for rapid start-up.
* Illustrates the top-down design procedure used in modern VLSI chip design with an emphasis on variations in the HDL, logic, circuits and layout.

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Editorial Review

From the Back Cover
A Complete and accessible introduction to modern digital VLSI design

Clearly Written for both classroom use and self-stuwritten and drawings, John. Uyemura's comprehensive introduction to modern VLSI design makes the subject accessible to students and professionals from a broad range of backgrounds, such s electrical engineering, computer engineering, and computer science. The text presents CMOS logic circuits, fabrication, and layout in a cohesive manner that links the material together with the system-level considerations.

- Throughout, the text emphasizes the top-down design procedure used to engineer complex VLSI chips, which enables readers to see the tradeoffs that occur at all levels of the design hierarchy. You'll learn how to compare different solutions to a CMOS logic implementation problem, and how the choices affect the overall outcome.**Features**
- Presents a comprehensive treatment of modern VLSI design.
- An accompanying CD-ROM containing student versions of Verilog® and SPICE simulators that can be run on a Windows® PC operating system.
- Includes an easy-to-read, self-contained chapter on Verilog® HDL.
- Many examples address system-level considerations.
- Numerous problems throughout the text illustrate key concepts.
- Demonstrates the interaction of system-level design with lower-level considerations of switching speed and silicon real estate.
- Covers the design of high-speed CMOS logic circuits.

Users Review

From reader reviews:

Willie Kelly:

The book untitled Introduction to VLSI Circuits and Systems contain a lot of information on the item. The writer explains the girl idea with easy approach. The language is very clear to see all the people, so do not necessarily worry, you can easy to read that. The book was authored by famous author. The author brings you in the new era of literary works. It is possible to read this book because you can read more your smart phone, or product, so you can read the book in anywhere and anytime. In a situation you wish to purchase the e-book, you can open their official web-site and also order it. Have a nice go through.

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