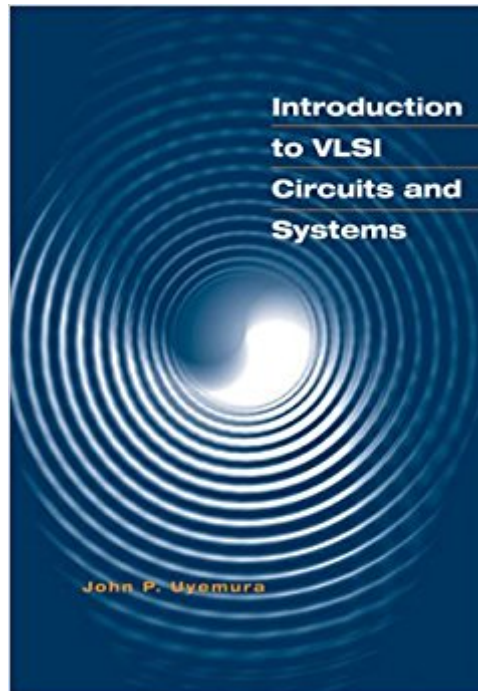




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Introduction To VLSI Circuits And Systems



Synopsis

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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Customer Reviews

A Complete and accessible introduction to modern digital VLSI design Clearly Written for both classroom use and self-studied 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 as 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.

If you want to jump into VLSI and get VERY far in one semester, this book is great. You will need Cadence and I also recommend as a challenge to yourself constructing your own 8-bit, 8 word ALU with 3 control bits and 8 operations $A+B$, $A-B$, $A \cdot A$, $A \div A$, $A \text{ nand } B$, $A \text{ xor } B$, $A \text{ nor } B$, $A \text{ shl}$ will be a good learning experience, specially if you try to optimize it and add a barrel shifter with a 2 clock operation cycle.

seems like pretty complicated stuff until John here breaks it down for you. wonderfully organized and clearly explained. every page is relevant to my course and easy to read.

Almost new, pretty good.

well

I am an EE PhD student in my first year and have to design a mixed analog/digital chip. This book is one of the best technical books I have ever read. Well structured, thorough but does not give you so much detail that you risk drowning. This book actually is fun to read.

Currently using this book for a class in VLSI design. Book is well written and easy to read. Stress fundamentals and design concepts. Highly recommended!

This book is very well written and easy to understand. The author did an excellent job organizing the topics and explaining the key points thoroughly.

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