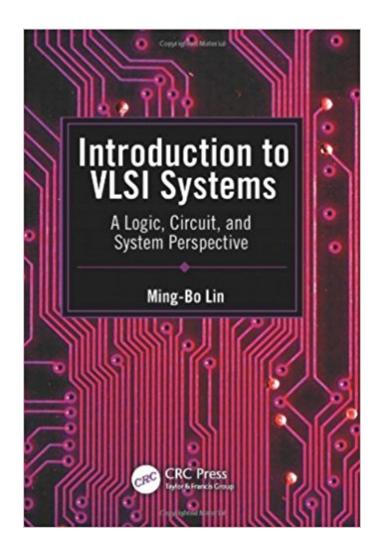


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# Introduction To VLSI Systems: A Logic, Circuit, And System Perspective





## 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 > VLSI & ULSI #403 in Books > Engineering > Logic #736

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