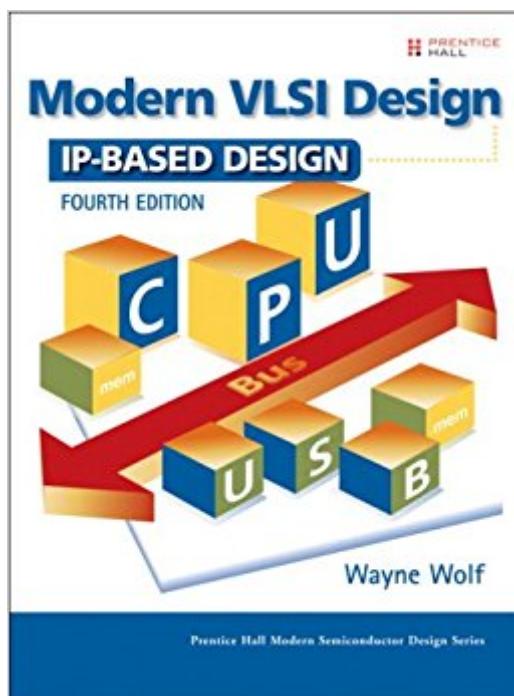


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# Modern VLSI Design: IP-Based Design (4th Edition)



## Synopsis

The Number 1 VLSI Design Guideâ "Now Fully Updated for IP-Based Design and the Newest Technologies Modern VLSI Design, Fourth Edition, offers authoritative, up-to-the-minute guidance for the entire VLSI design processâ "from architecture and logic design through layout and packaging. Wayne Wolf has systematically updated his award-winning book for todayâ ™s newest technologies and highest-value design techniques. Wolf introduces powerful new IP-based design techniques at all three levels: gates, subsystems, and architecture. He presents deeper coverage of logic design fundamentals, clocking and timing, and much more. No other VLSI guide presents as much up-to-date information for maximizing performance, minimizing power utilization, and achieving rapid design turnarounds. Coverage includesâ All-new material on IP-based design Extensive new coverage of networks-on-chips New coverage of using FPGA fabrics to improve design flexibility New material on image sensors, busses, Rentâ ™s Rule, pipelining, and more Updated VLSI technology parameters reflecting the latest advances Revised descriptions of HDLs and other VLSI design tools Advanced techniques for overcoming bottlenecks and reducing crosstalk Low-power design techniques for enhancing reliability and extending battery life Testing solutions for every level of abstraction, from gates to architecture Revamped end-of-chapter problems that fully reflect todayâ ™s VLSI design challenges Wolf introduces a top-down, systematic design methodology that begins with high-level models, extends from circuits to architecture, and facilitates effective testing. Along the way, he brings together all the skills VLSI design professionals will need to create tomorrowâ ™s state-of-the-art devices.

## Book Information

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The Number 1 VLSI Design Guide--Now Fully Updated for IP-Based Design and the Newest Technologies "Modern VLSI Design, Fourth Edition, " offers authoritative, up-to-the-minute guidance for the entire VLSI design process--from architecture and logic design through layout and packaging. Wayne Wolf has systematically updated his award-winning book for today's newest technologies and highest-value design techniques. Wolf introduces powerful new IP-based design techniques at all three levels: gates, subsystems, and architecture. He presents deeper coverage of logic design fundamentals, clocking and timing, and much more. No other VLSI guide presents as much up-to-date information for maximizing performance, minimizing power utilization, and achieving rapid design turnarounds. Coverage includes All-new material on IP-based designExtensive new coverage of networks-on-chipsNew coverage of using FPGA fabrics to improve design flexibilityNew material on image sensors, busses, Rent's Rule, pipelining, and moreUpdated VLSI technology parameters reflecting the latest advancesRevised descriptions of HDLs and other VLSI design toolsAdvanced techniques for overcoming bottlenecks and reducing crosstalkLow-power design techniques for enhancing reliability and extending battery lifeTesting solutions for every level of abstraction, from gates to architectureRevamped end-of-chapter problems that fully reflect today's VLSI design challengesWolf introduces a top-down, systematic design methodology that begins with high-level models, extends from circuits to architecture, and facilitates effective testing. Along the way, he brings together all the skills VLSI design professionals will need to create tomorrow's state-of-the-art devices.

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