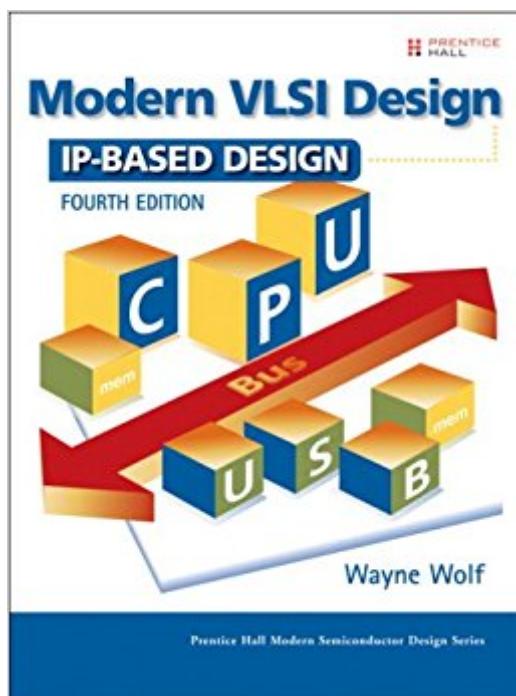


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Modern VLSI Design: IP-Based Design (4th Edition)



Synopsis

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 design • Extensive new coverage of networks-on-chips • New coverage of using FPGA fabrics to improve design flexibility • New material on image sensors, busses, Rent'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 today'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 tomorrow's state-of-the-art devices.

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