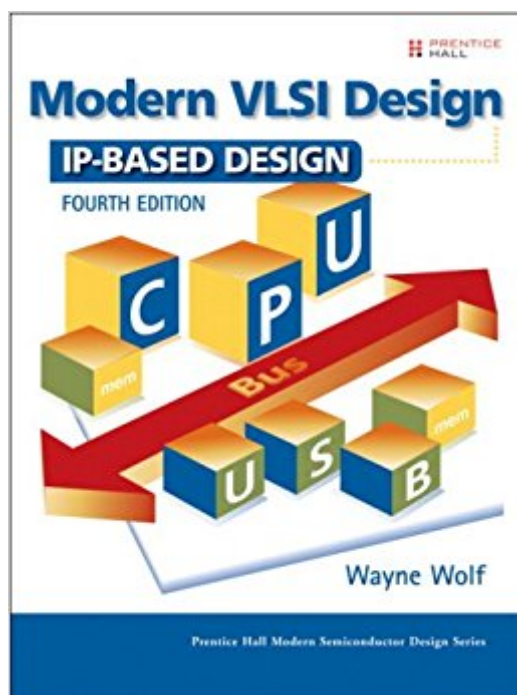The book was found

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

Synopsis

The Number 1 VLSI Design Guideâ¬â•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¬â•from architecture and logic design through layout and packaging. Wayne Wolf has systematically updated his award-winning book for todayâ¬â„¢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¬â 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¬â„¢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¬â„¢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¬â„¢s state-of-the-art devices.

Book Information

Hardcover: 656 pages

Publisher: Prentice Hall; 4 edition (December 31, 2008)

Language: English

ISBN-10: 0137145004

ISBN-13: 978-0137145003

Product Dimensions: 7.3 x 1.4 x 9.6 inches

Shipping Weight: 2.4 pounds (View shipping rates and policies)

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Best Sellers Rank: #1,111,954 in Books (See Top 100 in Books)   #43 inÃ Â Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits > VLSI & ULSI   #192

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