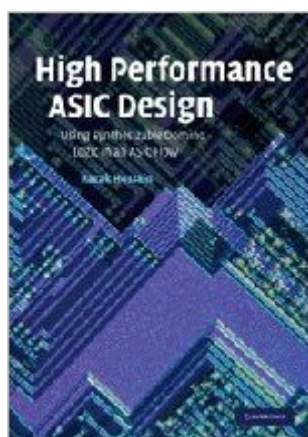


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High Performance ASIC Design: Using Synthesizable Domino Logic In An ASIC Flow



Synopsis

Presenting a methodology for using domino logic in an ASIC design flow developed over several years in an industrial context, this text covers practical issues related to the use of domino logic in an automated framework, and brings together all the knowledge needed to apply these design techniques in practice. Beginning with a discussion of how to achieve high speed in ASIC designs, subsequent chapters detail the design and characterization of standard cell compatible domino logic libraries and an advanced domino logic synthesis flow. The results achieved by using automated domino logic design techniques, including silicon measurements, are used to validate the presented solution. With design examples including the implementation of the execution unit of a microprocessor and a Viterbi decoder, this text is ideal for graduate students and researchers in electrical and computer engineering and also for circuit designers in industry.

Book Information

Hardcover: 160 pages

Publisher: Cambridge University Press; 1 edition (September 15, 2008)

Language: English

ISBN-10: 0521873347

ISBN-13: 978-0521873345

Product Dimensions: 6.8 x 0.5 x 9.7 inches

Shipping Weight: 1 pounds (View shipping rates and policies)

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Best Sellers Rank: #4,576,133 in Books (See Top 100 in Books) #96 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits > Logic #546 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits > Integrated #687 in Books > Computers & Technology > Programming > Software Design, Testing & Engineering > Logic

Customer Reviews

Presenting a methodology for using domino logic in an ASIC design flow, this text covers all the knowledge needed to apply these design techniques in practice and includes detailed, real-world design examples. This is ideal for graduate students and researchers in electrical and computer engineering, and circuit designers in industry.

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