

## FPGAs: World Class Designs (Paperback)



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ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 2009. Paperback. Condition: New. Language: English . Brand New Book. All the design and development inspiration and direction a hardware engineer needs in one blockbuster book! Clive Max Maxfield renowned author, columnist, and editor of PL DesignLine has selected the very best FPGA design material from the Newnes portfolio and has compiled it into this volume. The result is a book covering the gamut of FPGA design from design fundamentals to optimized layout techniques with a strong pragmatic emphasis. In addition to specific design techniques and practices, this book also discusses various approaches to solving FPGA design problems and how to successfully apply theory to actual design tasks. The material has been selected for its timelessness as well as for its relevance to contemporary FPGA design issues. Contents Chapter 1 Alternative FPGA Architectures Chapter 2 Design Techniques, Rules, and Guidelines Chapter 3 A VHDL Primer: The Essentials Chapter 4 Modeling Memories Chapter 5 Introduction to Synchronous State Machine Design and Analysis Chapter 6 Embedded Processors Chapter 7 Digital Signal Processing Chapter 8 Basics of Embedded Audio Processing Chapter 9 Basics of Embedded Video and Image Processing Chapter 10 Programming Streaming FPGA Applications Using Block Diagrams In Simulink Chapter 11 Ladder and functional block programming Chapter 12 Timers.



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