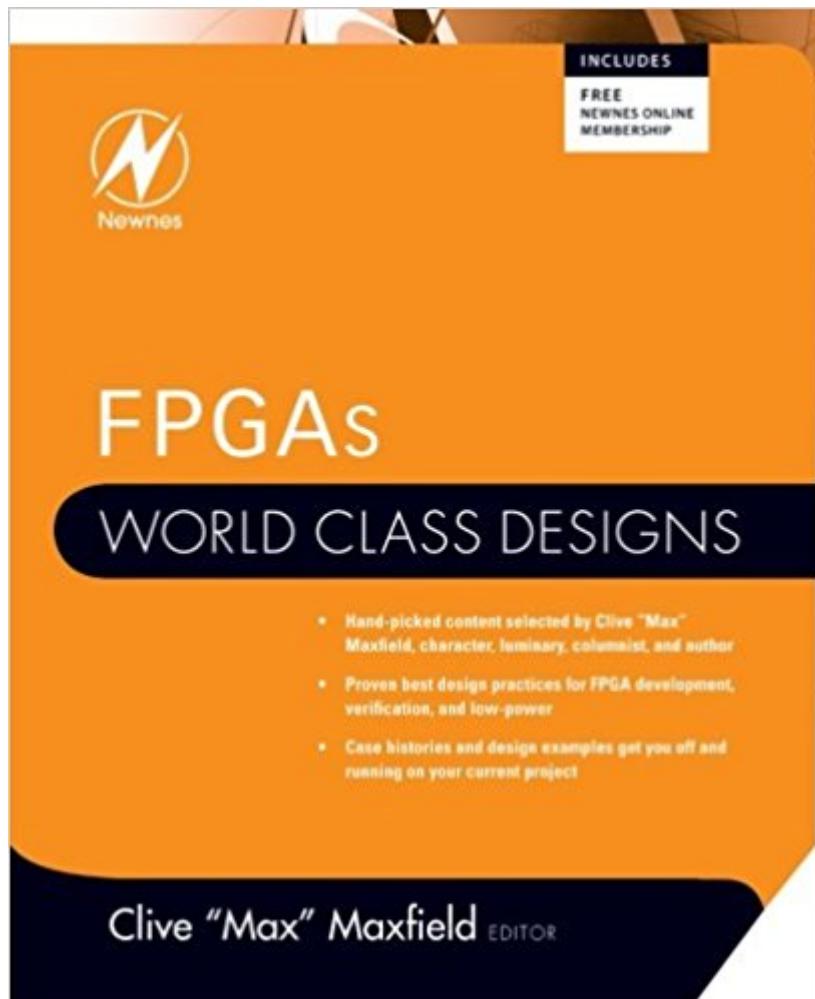


The book was found

FPGAs: World Class Designs



Synopsis

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 *Hand-picked content selected by Clive "Max" Maxfield, character, luminary, columnist, and author*Proven best design practices for FPGA development, verification, and low-power*Case histories and design examples get you off and running on your current project

Book Information

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Customer Reviews

I thought of it as a "sampler plate", offering various interesting bits and pieces. It might be useful for someone completely new to FPGAs and digital design, who is not scared of jumping into a completely unknown domain. The book groups various chapters "hand-picked" by the author with the possible goal of giving an idea of the overall problem space. That said, the content of the book is pretty non-uniform (hence the three stars) and probably less useful for a student or an experienced professional. If you are a newcomer and looking for a rigorous, progressive introduction in either FPGA or digital design, this is not the right book for you (you might want instead to look at books such as the two books *FPGA Prototyping by VHDL (or Verilog) Examples* by Pong P. Chu). If you have some expertise in the area, you might be turned off by the extreme diversity, and by the fact that many chapters are at an introductory level. A few comments on the actual chapters:- Chapter 1 is copied from *Design warrior's guide to FPGAs* by the same author. It's a pretty good intro (that chapter alone made me buy the book)- Chapter 2 (copied from *Designing with FPGAs and CPLDs* by Bob Zeidman) Plus: great chapter on synchronous design, etc. Minus: 24 pages of unexplained Verilog code. The author doesn't even explain that the language used to write that code is Verilog, so a newbie could be very confused by this chapter.- Chapter 3 nice VHDL intro (copied *Design recipes for FPGA* by Peter Wilson).- Chapter 4 Modeling memories (from *ASIC and FPGA verification*, by Richard Munden). Interesting step-by-step description of how to model a SDRAM device using the VITAL2000 package. Unfortunately too brief. Hopefully the actual book contains more details.

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