

Programming FPGAs: Getting Started with Verilog



Description

Take your creations to the next level with FPGAs and Verilog

This fun guide shows how to get started with FPGA technology using the popular Mojo, Papilio One, and Elbert 2 boards. Written by electronics guru Simon Monk, *Programming FPGAs: Getting Started with Verilog* features clear explanations, easy-to-follow examples, and downloadable sample programs. You'll get start-to-finish assembly and programming instructions for numerous projects, including an LED decoder, a timer, a tone generator—even a memory-mapped video display! The book serves both as a hobbyists' guide and as an introduction for professional developers.

- Explore the basics of digital electronics and digital logic
- Examine the features of the Mojo, Papilio One, and Elbert 2 boards
- Set up your computer and dive in to Verilog programming
- Work with the ISE Design Suite and user constraints files
- Understand and apply modular Verilog programming methods
- Generate electrical pulses through your board's GPIO ports
- Control servomotors and create your own sounds
- Attach a VGA TV or computer monitor and generate video
- All source code and finished bit files available for download

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