



Design Recipes for FPGAs, Second Edition: Using Verilog and VHDL

By Peter Wilson

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This book provides a rich toolbox of design techniques and templates to solve practical, every-day problems using FPGAs. Using a modular structure, it provides design techniques and templates at all levels, together with functional code, which you can easily match and apply to your application. Written in an informal and easy to grasp style, this invaluable resource goes beyond the principles of FPGAs and hardware description languages to demonstrate how specific designs can be synthesized, simulated and downloaded onto an FPGA. In addition, the book provides advanced techniques to create 'real world' designs that fit the device required and which are fast and reliable to implement.

- Examples are rewritten and tested in Verilog and VHDL
- Describes high-level applications as examples and provides the building blocks to implement them, enabling the student to start practical work straight away
- Singles out the most important parts of the language that are needed for design, giving the student the information needed to get up and running quickly

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Editorial Review

Review

"...a great book for someone wanting to learn HDL design as the examples are crystal-clear, and it can be hard to find real-world HDL examples on the 'net. The chapter on a CPU design alone will teach one a lot about coding for FPGAs." --**Embedded.com, *Design Recipes for FPGAs, Second Edition***

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"*Design Recipes for FPGAs* is an excellent volume for engineers who work with FPGAs either regularly or occasionally... the book provides a handy shelf reference with examples for many useful functional blocks, ranging from relatively small illustrative syntactic and structural examples to more complex concepts. Whether you work in VHDL occasionally or every day, you'll find practical help in this book." --**Lewin Edwards, Design Engineer and Technical Author**

From the Back Cover

A rich toolbox of practical FPGA design techniques and templates that will enable you to solve practical problems using FPGAs – now updated with examples in Verilog

This book provides a rich toolbox of design techniques and templates to solve practical, every-day problems using FPGAs. Using a modular structure, it provides design techniques and templates at all levels, together with functional code, which you can easily match and apply to your application. Written in an informal and easy to grasp style, this invaluable resource goes beyond the principles of FPGAs and hardware description languages to demonstrate how specific designs can be synthesized, simulated and downloaded onto an FPGA. In addition, the book provides advanced techniques to create 'real world' designs that fit the device required and which are fast and reliable to implement.

Key Features Include:

New mixed signal material in VHDL-AMS and Verilog-AMS About the Author

Peter Wilson is Professor of Electronic Systems Engineering in the Electronic and Electrical Engineering Department at the University of Bath. After obtaining degrees at Heriot-Watt University in Edinburgh he worked as a Senior Design Engineer with Ferranti, Scotland and then as a Technical Specialist for Analogy, Inc. in Oregon, USA. After obtaining his PhD at the University of Southampton, he joined the faculty and was a member of the Academic staff at the University of Southampton from 2002 till 2015 when he moved to the University of Bath. He has published more than 100 papers and 3 books. Peter Wilson is also a Fellow of the IET, Fellow of the British Computer Society, a Chartered Engineer in the UK and a Senior Member of the IEEE. Users Review**From reader reviews:**

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