



100 Power Tips For FPGA Designers

By Evgeni Stavinov

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This book is a collection of short articles on various aspects of FPGA design: synthesis, simulation, porting ASIC designs, floorplanning and timing closure, design methodologies, performance, area and power optimizations, RTL coding, IP core selection, and many others. The book is intended for system architects, design engineers, and students who want to improve their FPGA design skills. Both novice and seasoned logic and hardware engineers can find bits of useful information. This book is written by a practicing FPGA logic designer, and contains a lot of illustrations, code examples, and scripts. Rather than providing information applicable to all FPGA vendors, this book edition focuses on Xilinx Virtex-6 and Spartan-6 FPGA families. Code examples are written in Verilog HDL. All code examples, scripts, and projects provided in the book are available on accompanying website: http://outputlogic.com/100_fpga_power_tips

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Editorial Review

From the Author

I've never thought of myself as a book writer. Over the course of my career I've written volumes of technical documentation, published several articles in technical magazines, and have done a lot of technical blogging. At some point I've accumulated a wealth of experience and knowledge in the area of FPGA design, and thought it was a good time to share it with a broader audience. Writing a book takes time, commitment, and discipline. It also requires a very different skill set. Unfortunately, many engineers, including myself, are trained to use programming languages better than natural languages. Despite all that, writing a book is definitely an intellectually rewarding experience.

About the Author

Evgeni Stavinov is a longtime FPGA user with more than 10 years of diverse design experience. Before becoming a hardware architect at SerialTek LLC, he held different engineering positions at Xilinx, LeCroy and CATC. Evgeni holds MS and BS degrees in electrical engineering from University of Southern California and Technion - Israel Institute of Technology. Evgeni is a creator of OutputLogic.com, a portal that offers different online productivity tools.

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