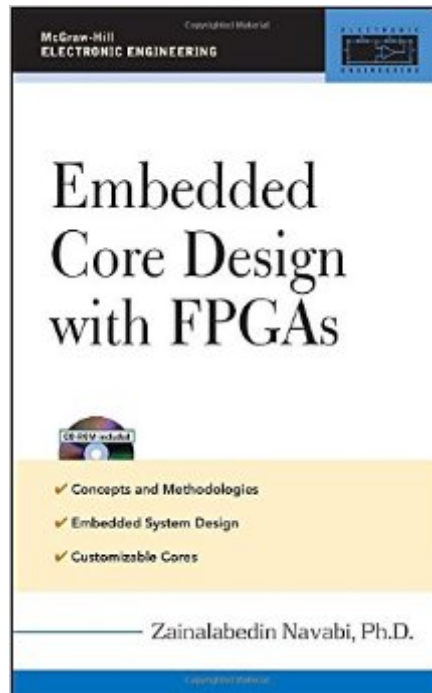# Embedded Core Design With FPGAs (McGraw-Hill Electronic Engineering)

Synopsis

This volume shows how a processor can be designed from scratch and by use of new EDA tools, how it interfaces with its software. It shows how a processor and its software can be used as an embedded core and used for the design of an embedded system.

Book Information

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Customer Reviews

Excellent writer. You'll learn how to design your own processor from scratch. It goes from transistor level design to system level design gradually providing a detailed view from low level to high level.

"Embedded Core Design with FPGAs" written by Dr. Zainalabedin Navabi is an excellent book to learn FPGA based Embedded system design. This book covers everything a person needs to know for learning FPGAs.It explains logic design concepts first. Even if a person is very new to the digital field, he/she will be able to start right from there. Then the chapter named RTL design with Verilog, gives an opportunity to learn a hardware description language named Verilog right from this book. This chapter is so well written that no other separate book on verilog is necessary to learn.This book explains very well how the Field Programmable Devices work. It has lots of examples to work with and program with Altera UP3 and DE2 board. These examples have made this book a unique one, because most of the books only provide examples, but this one shows how one can really use an FPGA board and provides step by step procedure to run those example in the FPGA board.This

book also has a chapter to design with Embedded processors. Embedded design steps were shown brilliantly with examples like design of a microcontroller etc.Overall, this is a very good book on Embedded system design which covers topics like logic design to learning verilog to using FPGA boards to designing embedded processors.

This is a very good reference book but the Kindle format is terrible for searching or even using the index to find a page. The same book in PDF format works much better, since you can search the index and immediately find the topic with a click of the mouse. I woluld like to get a refund of my Kindle purchase of this book, but that doesn't seem possible via the website. Bottom line: An excellent reference book but not on Kindle: use PDF.

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