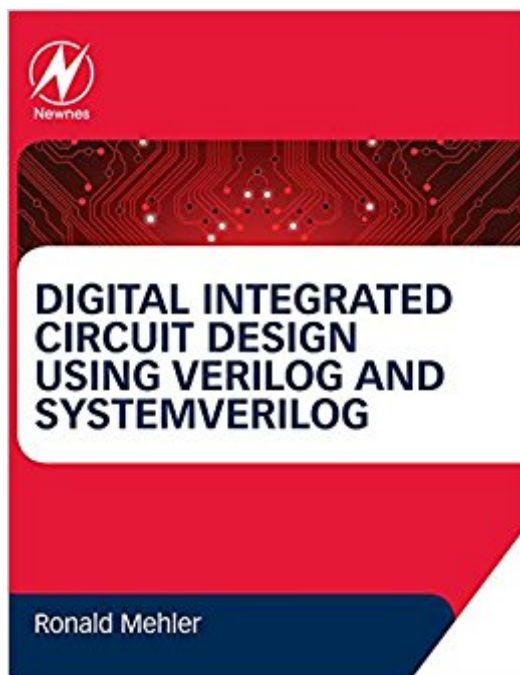


The book was found

# Digital Integrated Circuit Design Using Verilog And Systemverilog



## Synopsis

For those with a basic understanding of digital design, this book teaches the essential skills to design digital integrated circuits using Verilog and the relevant extensions of SystemVerilog. In addition to covering the syntax of Verilog and SystemVerilog, the author provides an appreciation of design challenges and solutions for producing working circuits. The book covers not only the syntax and limitations of HDL coding, but deals extensively with design problems such as partitioning and synchronization, helping you to produce designs that are not only logically correct, but will actually work when turned into physical circuits. Throughout the book, many small examples are used to validate concepts and demonstrate how to apply design skills. This book takes readers who have already learned the fundamentals of digital design to the point where they can produce working circuits using modern design methodologies. It clearly explains what is useful for circuit design and what parts of the languages are only software, providing a non-theoretical, practical guide to robust, reliable and optimized hardware design and development.

**Produce working hardware:** Covers not only syntax, but also provides design know-how, addressing problems such as synchronization and partitioning to produce working solutions

**Usable examples:** Numerous small examples throughout the book demonstrate concepts in an easy-to-grasp manner

**Essential knowledge:** Covers the vital design topics of synchronization, essential for producing working silicon; asynchronous interfacing techniques; and design techniques for circuit optimization, including partitioning

## Book Information

File Size: 18881 KB

Print Length: 446 pages

Publisher: Newnes; 1 edition (October 15, 2014)

Publication Date: October 15, 2014

Sold by: Digital Services LLC

Language: English

ASIN: B00OIRJ66A

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #708,648 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #79

inÂ Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Microelectronics #87 inÂ Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Electrical & Electronics > Digital Design #110 inÂ Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Industrial Design

## Customer Reviews

I'm a non-engineering degree'd professional who works with Electrical Engineers/Circuit designers daily. I needed a way to clearly understand the work these engineers were engaging in for project review purposes. This book gives me a clear understanding of the circuit design process, without having to have an engineering degree. If I was an engineer, I can see how this book would give clear insight into Verilog and System Verilog code and how to use it efficiently. Easy to read, and even my son who is a junior in high school picked it up and I haven't gotten it back as yet since I bought it! He's on his way to becoming a Semiconductor Design Engineer!

Digital Integrated Circuit Design by Ron Mehler is a highly recommended addition to any digital engineer's library. Although there are several good books written regarding the SystemVerilog Language in both design and verification, Mr. Mehler's work approaches the design effort first and how to use the SystemVerilog language as a tool to accomplish the design. This is a valuable resource to any digital engineer responsible for the design of digital system using SystemVerilog. The variety of design examples i.e. state machines, FIR Filters, FIFOs, Demux, DFT, Synchronization etc., make this an excellent resource for any design engineer.

[Download to continue reading...](#)

Digital Integrated Circuit Design Using Verilog and Systemverilog Digital Design (Verilog): An Embedded Systems Approach Using Verilog Winter Circuit (Show Circuit Series -- Book 2) (The Show Circuit) The Verilog PLI Handbook: A User's Guide and Comprehensive Reference on the Verilog Programming Language Interface Digital System Design with SystemVerilog Digital Design with RTL Design, VHDL, and Verilog Designing Dynamic Circuit Response (Analog Circuit Design) Digital VLSI Design with Verilog: A Textbook from Silicon Valley Polytechnic Institute Digital Systems Design: A Practical Approach: The Verilog Edition Digital VLSI Design with Verilog: A Textbook from Silicon Valley Technical Institute Digital Design: With an Introduction to the Verilog HDL 5th Ed. By Morris Mano (International Economy Edition) Finite State Machines in Hardware: Theory and Design (with VHDL and SystemVerilog) (MIT Press) High-Frequency Analog Integrated

Circuit Design (Wiley Series in Microwave and Optical Engineering) Analog Integrated Circuit Design Radio Frequency Integrated Circuit Design High Performance Integrated Circuit Design VLSI Chip Design with the Hardware Description Language VERILOG: An Introduction Based on a Large RISC Processor Design Measuring the Digital World: Using Digital Analytics to Drive Better Digital Experiences (FT Press Analytics) Circuit Engineering: The Beginner's Guide to Electronic Circuits, Semi-Conductors, Circuit Boards, and Basic Electronics Summer Circuit (Show Circuit Series -- Book 1)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)