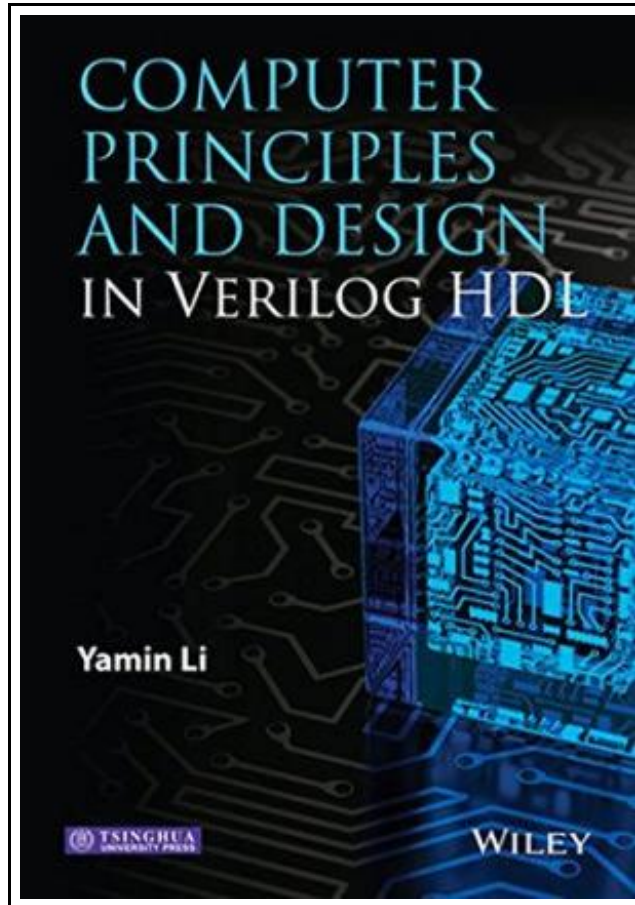


## Computer Principles and Design in Verilog HDL



Filesize: 2.2 MB

### ***Reviews***

*This is the finest book i have got go through right up until now. I have got read and i also am confident that i am going to planning to read once again yet again in the future. You will not truly feel monotony at at any time of the time (that's what catalogs are for about if you check with me).*  
(Taylor Medhurst)

## COMPUTER PRINCIPLES AND DESIGN IN VERILOG HDL

[DOWNLOAD](#)

John Wiley & Sons Inc. Hardback. Book Condition: new. BRAND NEW, Computer Principles and Design in Verilog HDL, Tsinghua University Press, Yamin Li, The best way to learn what is important in computer architecture and microprocessor design is to see the logic designed in detail and simulated directly both in an explained text with the chance to duplicate those simulations, or your own ideas, yourself. This text succeeds in this regard. This book aims to teach fundamental and more advanced level Computer Architecture and Microprocessor Design, using an industrially important Hardware Description Language (HDL) to illustrate each concept. Use of an HDL will allow the student to readily simulate and adjust the operation of each design, and thus build industrially relevant skills. It introduces the computer principles, computer design, and how to use Verilog HDL (Hardware Description Language) to implement the design. The contents include: - 1) computer fundamentals and performance evaluation; 2) digital circuits and their design in Verilog HDL; 3) computer arithmetic algorithms (addition, subtraction, multiplication, division, and square root, as well as the Wallace Tree for multiplication, Newton-Raphson algorithm and Goldschmidt algorithm for division and square root) and their implementations in Verilog HDL; 4) instruction set architecture, ALU design, and register file design in Verilog HDL; 5) single-cycle CPU, multiple-cycle CPU, pipelined CPU designs in Verilog HDL; 6) interrupts, exceptions, and precise interrupts/exceptions; 7) floating-point algorithms, FPU design, and pipelined CPU/FPU design in Verilog HDL; 8) multithreading CPU design in Verilog HDL; 9) memory, cache, and virtual memory management; 10) design of CPU/FPU with cache and TLB in Verilog HDL; 11) Multi-core CPU design in Verilog HDL; 12) UART (Universal Asynchronous Receiver Transmitter), PS/2 keyboard and mouse, VGA (Video Graphics Array), I2C series bus and PCI parallel bus interface design in Verilog HDL; and 13) high-performance computers...

[Read Computer Principles and Design in Verilog HDL Online](#)[Download PDF Computer Principles and Design in Verilog HDL](#)

## See Also



### **A Smarter Way to Learn JavaScript: The New Approach That Uses Technology to Cut Your Effort in Half**

Createspace, United States, 2014. Paperback. Book Condition: New. 251 x 178 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The ultimate learn-by-doing approachWritten for beginners, useful for experienced developers who want to...

[Read Book »](#)



### **Dont Line Their Pockets With Gold Line Your Own A Small How To Book on Living Large**

Madelyn D R Books. Paperback. Book Condition: New. Paperback. 106 pages. Dimensions: 9.0in. x 6.0in. x 0.3in.This book is about my cousin, Billy a guy who taught me a lot over the years and who...

[Read Book »](#)



### **Read Write Inc. Phonics: Yellow Set 5 Storybook 9 Grow Your Own Radishes**

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. Tim Archbold (illustrator). 175 x 148 mm. Language: N/A. Brand New Book. These engaging Storybooks provide structured practice for children learning to read the Read...

[Read Book »](#)



### **It's Just a Date: How to Get 'em, How to Read 'em, and How to Rock 'em**

HarperCollins Publishers. Paperback. Book Condition: new. BRAND NEW, It's Just a Date: How to Get 'em, How to Read 'em, and How to Rock 'em, Greg Behrendt, Amiira Ruotola-Behrendt, A fabulous new guide to dating...

[Read Book »](#)



### **Crochet: Learn How to Make Money with Crochet and Create 10 Most Popular Crochet Patterns for Sale: ( Learn to Read Crochet Patterns, Charts, and Graphs, Beginner s Crochet Guide with Pictures)**

Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Getting Your FREE Bonus Download this book, read it to the end and...

[Read Book »](#)