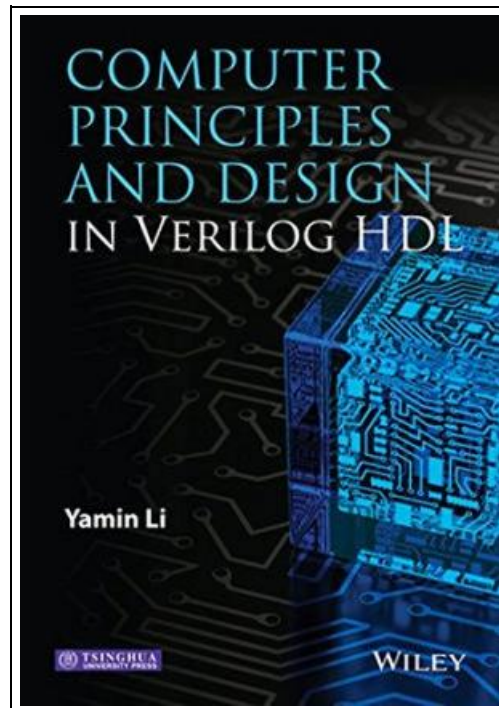# Computer Principles and Design in Verilog HDL

Filesize: 5.91 MB

Reviews

This ebook is worth acquiring. Better then never, though i am quite late in start reading this one. You will not truly feel monotony at at any time of your own time (that's what catalogues are for about if you ask me).
(Lorenz Vandervort)

COMPUTER PRINCIPLES AND DESIGN IN VERILOG HDL

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

You May Also Like

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 eBook

»

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 eBook

»

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 eBook

»

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 eBook

»

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 eBook

»

Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 3: Shops (Hardback)

Oxford University Press, United Kingdom, 2011. Hardback. Book Condition: New. 174 x 142 mm. Language: English . Brand New Book. Read With Biff, Chip and Kipper is the UK s best-selling home reading series. It

Read PDF

»

Oxford Reading Tree Read with Biff, Chip and Kipper: Phonics: Level 2: A Yak at the Picnic (Hardback)

Oxford University Press, United Kingdom, 2014. Hardback. Book Condition: New. Mr. Nick Schon (illustrator). 177 x 148 mm. Language: English . Brand New Book. Read With Biff, Chip and Kipper is the UK s best-selling

Read PDF

»

Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 4: The Moon Jet (Hardback)

Oxford University Press, United Kingdom, 2011. Hardback. Book Condition: New. 172 x 142 mm. Language: English . Brand New Book. Read With Biff, Chip and Kipper is the UK s best-selling home reading series. It

Read PDF

»

Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 2: I am Kipper (Hardback)

Oxford University Press, United Kingdom, 2011. Hardback. Book Condition: New. 172 x 144 mm. Language: English . Brand New Book. Read With Biff, Chip and Kipper is the UK s best-selling home reading series. It

Read PDF

»

Read Write Inc. Phonics: Blue Set 6 Storybook 1 Barker

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. Tim Archbold (illustrator). 209 x 129 mm. Language: N/A. Brand New Book. These engaging Storybooks provide structured practice for children learning to read the Read

Read PDF

»