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Frank Vahid Professor, Computer Science & Engineering, Univ. of California, Riverside, CA 92521 Office: Winston Chung Hall 328, Lab: WCH 464, (951) 827-4710, ... Embedded Systems, Digital Design, Computer Systems and Assembly Programming, Computing Technology, Java, and more (2013 - present). Book: Digital Design + VHDL/Verilog books (Wiley ...

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Embedded System Design -- A Unified Hardware/Software Introduction By Frank Vahid and Tony Givargis, published by J. Wiley and Sons, (c) 2002. Emphasizes top-down design involving tradeoffs between programmable processor and custom digital processors. Describes various memory technologies and approaches to interfacing.

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Frank Vahid is the author of Digital Design with RTL Design, VHDL, and Verilog, 2nd Edition, published by Wiley.

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Digital Design Copyright \u00a9 2006 Frank Vahid Converting to Boolean Equations \u25a1 Q1. A fire sprinkler system should spray water if high heat is sensed and the system is set to enabled. - Answer: Let Boolean variable h represent "high heat is sensed," e represent "enabled," and F represent "spraying water." Then an equation is: F = h AND e.

[Chapter 2: Combinational Logic Design](#)

Verilog for Digital Design [Vahid, Frank, Lysecky, Roman] on Amazon.com. *FREE* shipping on qualifying offers. Verilog for Digital Design ... * Verilog is a hardware description language used to model electronic systems (sometimes called Verilog HDL) and this book is helpful for anyone who is starting out and learning the language

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Verilog for Digital Design provides a straightforward practical introduction to the use of the Verilog hardware description language for designing digital systems. The book's chapters cover increasingly complex digital design levels, starting with combinational logic, then sequential logic, datapath components, and finally register-transfer ...

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Digital Design Copyright \u00a9 2006 Frank Vahid Step 1: Create a High-Level State Machine \u25a1 Let's consider each step of the RTL design process in more detail \u25a1 Step 1 - Soda dispenser example - Not an FSM because: \u25a1 Multi-bit (data) inputs a and s \u25a1 Local register tot \u25a1 Data operations tot=0, tot<s, tot=tot+a. - Useful high-level state machine:

[Chapter 5: Register Transfer Level \(RTL\) Design](#)

This book introduces a modern approach to embedded system design, presenting software design and hardware design in a unified manner. It covers trends and challenges, introduces the design and use of single-purpose processors ("hardware") and general-purpose processors ("software"), describes memories and buses, illustrates hardware/software tradeoffs using a digital camera example, and ...

"Digital Design provides a modern approach to learning the increasingly important topic of digital systems design. The text's focus on register-transfer-level design and present-day applications not only leads to a better appreciation of computers and of today's ubiquitous digital devices, but also provides for a better understanding of careers involving digital design and embedded system design. The book's key features include: An emphasis on register-transfer-level (RTL) design, the level at which most digital design is practiced today, giving readers a modern perspective of the field's applicability. Yet, coverage stays bottom-up and concrete, starting from basic transistors and gates, and moving step-by-step up to more complex components. Extensive use of basic examples to teach and illustrate new concepts, and of application examples, such as pacemakers, ultrasound machines, automobiles, and cell phones, to demonstrate the immediate relevance of the concepts. Separation of basic design from optimization, allowing development of a solid understanding of basic design, before considering the more advanced topic of optimization. Flexible organization, enabling early or late coverage of optimization methods or of HDLs, and enabling choice of VHDL, Verilog, or SystemC HDLs. Career insights and advice from designers with varying levels of experience. A clear bottom-up description of field-programmable gate arrays (FPGAs). About the Author: Frank Vahid is a Professor of Computer Science & Engineering at the University of California, Riverside. He holds Electrical Engineering and Computer Science degrees; has worked/consulted for Hewlett Packard, AMCC, NEC, Motorola, and medical equipment makers; holds 3 U.S. patents; has received several teaching awards; helped setup UCR's Computer Engineering program; has authored two previous textbooks; and has published over 120 papers on digital design topics (automation, architecture, and low-power).

This book introduces a modern approach to embedded system design, presenting software design and hardware design in a unified manner. It covers trends and challenges, introduces the design and use of single-purpose processors ("hardware") and general-purpose processors ("software"), describes memories and buses, illustrates hardware/software tradeoffs using a digital camera example, and discusses advanced computation models, controls systems, chip technologies, and modern design tools. For courses found in EE, CS and other engineering departments.

An eagerly anticipated, up-to-date guide to essential digital design fundamentals Offering a modern, updated approach to digital design, this much-needed book reviews basic design fundamentals before diving into specific details of design optimization. You begin with an examination of the low-levels of design, noting a clear distinction between design and gate-level minimization. The author then progresses to the key uses of digital design today, and how it is used to build high-performance alternatives to software. Offers a fresh, up-to-date approach to digital design, whereas most literature available is solely outdated Progresses though low levels of design, making a clear distinction between design and gate-level minimization Addresses the various uses of digital design today Enables you to gain a clearer understanding of applying digital design to your life With this book by your side, you'll gain a better understanding of how to apply the material in the book to real-world scenarios.

* Ideal as either a standalone introductory guide or in tandem with Vahid's Digital Design to allow for greater language coverage, this is an accessible introductory guide to hardware description language * Verilog is a hardware description language used to model electronic systems (sometimes called Verilog HDL) and this book is helpful for anyone who is starting out and learning the language * Focuses on application and use of the language, rather than just teaching the basics of the language

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