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Xiaokun Yang



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and data processing for exchanging knowledge that encompasses a broad range of disciplines among various distinct communities Another goal is to promote scientific information interchange between researchers developers engineers students and practitioners working in India and abroad *SystemVerilog for Verification* Chris Spear,2008-04-22

SystemVerilog for Verification Second Edition provides practical information for hardware and software engineers using the SystemVerilog language to verify electronic designs The author explains methodology concepts for constructing testbenches that are modular and reusable The book includes extensive coverage of the SystemVerilog 3.1a constructs such as classes program blocks randomization assertions and functional coverage It also reviews SystemVerilog 3.0 topics such as interfaces and data types This second edition contains a new chapter that covers programs and interfaces as well as chapters with updated information on directed testbench and OOP layered and random testbench for an ATM switch This edition also includes a new chapter that covers Interfacing to C and many new and improved examples and explanations For hardware engineers the book has several chapters with detailed explanations of Object Oriented Programming based on years of teaching OOP to hundreds of students For software engineers there is a wealth of information on testbenches multithreaded code and interfacing to hardware designs The reader only needs to know the Verilog 1995 standard The complete book that covers verification concepts and use of system verilog in Verification taking your from an easy start to advanced concepts with ease Paul D Franzon Alumni Distinguished Professor of ECE North Carolina State University *Languages for System Specification* Christoph Grimm,2007-05-08 Contributions on UML address the application of UML in the specification of embedded HW SW systems C Based System Design embraces the modeling of operating systems modeling with different models of computation generation of test patterns and experiences from case studies with SystemC Analog and Mixed Signal Systems covers rules for solving general modeling problems in VHDL AMS modeling of multi nature systems synthesis and modeling of Mixed Signal Systems with SystemC Languages for formal methods are addressed by contributions on formal specification and refinement of hybrid embedded and real time stems Together with articles on new languages such as SystemVerilog and Software Engineering in Automotive Systems the contributions selected for this book embrace all aspects of languages and models for specification design modeling and verification of systems Therefore the book gives an excellent overview of the actual state of the art and the latest research results **Integrated Circuit Design** Xiaokun

Yang,2024-11-20 This textbook seeks to foster a deep understanding of the field by introducing the industry integrated circuit IC design flow and offering tape out or pseudo tape out projects for hands on practice facilitating project based learning PBL experiences Integrated Circuit Design IC Design Flow and Project Based Learning aims to equip readers for entry level roles as IC designers in the industry and as hardware design researchers in academia The book commences with an overview of the industry IC design flow with a primary focus on register transfer level RTL design the automation of simulation and verification and system on chip SoC integration To build connections between RTL design and physical

hardware FPGA field programmable gate array synthesis and implementation is utilized to illustrate the hardware description and performance evaluation The second objective of this book is to provide readers with practical hands on experience through tape out or pseudo tape out experiments labs and projects These activities are centered on coding format industry design rules synthesizable Verilog designs clock domain crossing etc and commonly used bus protocols arbitration handshaking etc as well as established design methodologies for widely adopted hardware components including counters timers finite state machines FSMs I2C single dual port and ping pong buffers register files FIFOs floating point units FPUs numerical hardware Fourier transform matrix matrix multiplication etc direct memory access DMA image processing designs neural networks and more The textbook caters to a diverse readership including junior and senior undergraduate students as well as graduate students pursuing degrees in electrical engineering computer engineering computer science and related fields The target audience is expected to have a basic understanding of Boolean Algebra and Karnaugh Maps as well as prior familiarity with digital logic components such as AND OR gates latches and flip flops The book will also be useful for entry level RTL designers and verification engineers who are embarking on their journey in application specific IC ASIC and FPGA design industry

Modellierung von digitalen Systemen mit SystemC Frank Kesel, 2012-10-18 Mit SystemC einer auf C aufbauenden Bibliothek können digitale elektronische Systeme modelliert und simuliert werden insbesondere auf der sogenannten Transaktionsebene Transaction Level Modeling TLM SystemC hat sich über einen Zeitraum von etwa zehn Jahren zur Reife entwickelt wurde in jüngster Zeit standardisiert und findet zunehmend Verbreitung in der Hochschullehre und der Industrie Dieses Lehrbuch bietet eine leicht verständliche und praxisnahe Einführung in die Modellierung von digitalen Systemen mit SystemC nach dem IEEE Standard 1666 2011 Im Vordergrund steht dabei die Modellierung auf der Transaktionsebene Die Lerninhalte werden anhand einer Vielzahl von anschaulichen und nachvollziehbaren Beispielen vermittelt Übungsaufgaben am Ende jedes Kapitels dienen der Vertiefung des Erlernten Alle Programmbeispiele und die Lösungen zu den Übungen stehen zum Download zur Verfügung

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Verilog® Quickstart James M. Lee, 1999 CD ROM contains over 100 runnable examples from book SILOS III simulator **Proceedings of Technical Papers**, 2005 *VERILOG HDL Quick Reference Guide* Stuart Sutherland, 1995 The VHDL Golden Reference Guide [Anonymus AC05973950], 2003

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