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Power Modeling (TLPM). Readers will benefit from this innovative way of evaluating power on a high level of abstraction, at an early stage of the product life cycle, decreasing the number of the expensive design iterations.

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FIR and IIR filters, multirate digital signal processing systems, DFT and FFT algorithms, and advanced algorithms with high future potential. Each chapter contains exercises. The VERILOG source code and a glossary are given in the appendices, while the accompanying CD-ROM contains the examples in VHDL and Verilog code as well as the newest Altera "Baseline" software. This edition has a new chapter on adaptive filters, new sections on division and floating point arithmetics, an up-date to the current Altera software, and some new exercises.

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This book is structured as a step-by-step course of study along the lines of a VLSI integrated circuit design project. The entire Verilog language is presented, from the basics to everything necessary for synthesis of an entire 70,000 transistor, full-duplex serializer-deserializer, including synthesizable PLLs. The author includes everything an engineer needs for in-depth understanding of the Verilog language: Syntax, synthesis semantics, simulation and test. Complete solutions for the 27 labs are provided in the downloadable files that accompany the book. For readers with access

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to appropriate electronic design tools, all solutions can be developed, simulated, and synthesized as described in the book. A partial list of design topics includes design partitioning, hierarchy decomposition, safe coding styles, back annotation, wrapper modules, concurrency, race conditions, assertion-based verification, clock synchronization, and design for test. A concluding presentation of special topics includes System Verilog and Verilog-AMS.

System-on-Chip Methodologies & Design Languages brings together a selection of the

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best papers from three international electronic design language conferences in 2000. The conferences are the Hardware Description Language Conference and Exhibition (HDLCon), held in the Silicon Valley area of USA; the Forum on Design Languages (FDL), held in Europe; and the Asia Pacific Chip Design Language (APChDL) Conference. The papers cover a range of topics, including design methods, specification and modeling languages, tool issues, formal verification, simulation and synthesis. The results presented in these papers will help researchers and practicing

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engineers keep abreast of developments in this rapidly evolving field.

The Verilog hardware description language (HDL) provides the ability to describe digital and analog systems. This ability spans the range from descriptions that express conceptual and architectural design to detailed descriptions of implementations in gates and transistors. Verilog was developed originally at Gateway Design Automation Corporation during the mid-eighties. Tools to verify designs expressed in Verilog were implemented at the same time

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and marketed. Now Verilog is an open standard of IEEE with the number 1364. Verilog HDL is now used universally for digital designs in ASIC, FPGA, microprocessor, DSP and many other kinds of design-centers and is supported by most of the EDA companies. The research and education that is conducted in many universities is also using Verilog. This book introduces the Verilog hardware description language and describes it in a comprehensive manner. Verilog HDL was originally developed and specified with the intent of use with a simulator. Semantics of the language had not been fully described

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until now. In this book, each feature of the language is described using semantic introduction, syntax and examples. Chapter 4 leads to the full semantics of the language by providing definitions of terms, and explaining data structures and algorithms. The book is written with the approach that Verilog is not only a simulation or synthesis language, or a formal method of describing design, but a complete language addressing all of these aspects. This book covers many aspects of Verilog HDL that are essential parts of any design process.

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Richard Munden demonstrates how to create and use simulation models for verifying ASIC and FPGA designs and board-level designs that use off-the-shelf digital components. Based on the VHDL/VITAL standard, these models include timing constraints and propagation delays that are required for accurate verification of today's digital designs. ASIC and FPGA Verification: A Guide to Component Modeling expertly illustrates how ASICs and FPGAs can be verified in the larger context of a board or a system. It is a valuable resource for any designer who simulates multi-chip digital designs. *Provides numerous models and a

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clearly defined methodology for performing board-level simulation. *Covers the details of modeling for verification of both logic and timing. *First book to collect and teach techniques for using VHDL to model "off-the-shelf" or "IP" digital components for use in FPGA and board-level design verification.

Based on the highly successful second edition, this extended edition of SystemVerilog for Verification: A Guide to Learning the Testbench Language Features teaches all verification features of the SystemVerilog language, providing hundreds of

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examples to clearly explain the concepts and basic fundamentals. It contains materials for both the full-time verification engineer and the student learning this valuable skill. In the third edition, authors Chris Spear and Greg Tumbush start with how to verify a design, and then use that context to demonstrate the language features, including the advantages and disadvantages of different styles, allowing readers to choose between alternatives. This textbook contains end-of-chapter exercises designed to enhance students' understanding of the material. Other features of this revision include: New

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sections on static variables, print specifiers, and DPI from the 2009 IEEE language standard Descriptions of UVM features such as factories, the test registry, and the configuration database Expanded code samples and explanations Numerous samples that have been tested on the major SystemVerilog simulators SystemVerilog for Verification: A Guide to Learning the Testbench Language Features, Third Edition is suitable for use in a one-semester SystemVerilog course on SystemVerilog at the undergraduate or graduate level. Many of the improvements to this new edition were

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compiled through feedback provided from hundreds of readers.

A completely updated and expanded comprehensive treatment of VHDL and its applications to the design and simulation of real, industry-standard circuits. This comprehensive treatment of VHDL and its applications to the design and simulation of real, industry-standard circuits has been completely updated and expanded for the third edition. New features include all VHDL-2008 constructs, an extensive review of digital circuits, RTL analysis, and an unequaled

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collection of VHDL examples and exercises. The book focuses on the use of VHDL rather than solely on the language, with an emphasis on design examples and laboratory exercises. The third edition begins with a detailed review of digital circuits (combinatorial, sequential, state machines, and FPGAs), thus providing a self-contained single reference for the teaching of digital circuit design with VHDL. In its coverage of VHDL-2008, it makes a clear distinction between VHDL for synthesis and VHDL for simulation. The text offers complete VHDL codes in examples as well as simulation results and comments. The

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significantly expanded examples and exercises include many not previously published, with multiple physical demonstrations meant to inspire and motivate students. The book is suitable for undergraduate and graduate students in VHDL and digital circuit design, and can be used as a professional reference for VHDL practitioners. It can also serve as a text for digital VLSI in-house or academic courses.

The Arm(R) Cortex(R)-M processors are already one of the most popular choices for IoT and embedded applications. With Arm Flexible

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Access and DesignStart(TM), accessing Arm Cortex-M processor IP is fast, affordable, and easy. This book introduces all the key topics that system-on-chip (SoC) and FPGA designers need to know when integrating a Cortex-M processor into their design, including bus protocols, bus interconnect, and peripheral designs. Joseph Yiu is a distinguished Arm engineer who began designing SoCs back in 2000 and has been a leader in this field for nearly twenty years. Joseph's book takes an expert look at what SoC designers need to know when incorporating Cortex-M processors into their systems. He

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discusses the on-chip bus protocol specifications (AMBA, AHB, and APB), used by Arm processors and a wide range of on-chip digital components such as memory interfaces, peripherals, and debug components. Software development and advanced design considerations are also covered. The journey concludes with 'Putting the system together', a designer's eye view of a simple microcontroller-like design based on the Cortex-M3 processor (DesignStart) that uses the components that you will have learned to create.

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SystemVerilog is a rich set of extensions to the IEEE 1364-2001 Verilog Hardware Description Language (Verilog HDL). These extensions address two major aspects of HDL based design. First, modeling very large designs with concise, accurate, and intuitive code. Second, writing high-level test programs to efficiently and effectively verify these large designs. This book, SystemVerilog for Design, addresses the first aspect of the SystemVerilog extensions to Verilog. Important modeling features are presented, such as two-state data types, enumerated types, user-defined types,

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structures, unions, and interfaces. Emphasis is placed on the proper usage of these enhancements for simulation and synthesis. A companion to this book, SystemVerilog for Verification, covers the second aspect of SystemVerilog.

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