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Introduction. Advanced ASIC Chip Synthesis: Using Synopsys® Design Compiler® Physical Compiler® and PrimeTime®, Second Edition describes the advanced concepts and techniques used towards ASIC chip synthesis, physical synthesis, formal verification and static timing analysis, using the Synopsys suite of tools. In addition, the entire ASIC design flow methodology targeted for VDSM (Very-Deep-

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Description This text describes the advanced concepts and techniques used for ASIC chip synthesis, formal verification and static timing analysis, using the Synopsys suite of tools. Significance is placed on HDL coding styles, synthesis and optimization, dynamic simulation, formal verification, DFT scan insertion, links to layout, and static timing analysis.

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Description This text describes the advanced concepts and techniques used for ASIC chip synthesis, formal verification and static timing analysis, using the Synopsys suite of tools. Over 20 years of chip design experience, designing complex SOCs in networking, communications, imaging, among others.

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Advanced ASIC Chip Synthesis: Using Synopsys® Design Compiler® and PrimeTime® is intended for anyone who is involved in the ASIC design methodology, starting from RTL synthesis to final tape-out. Target audiences for this book are practicing ASIC design engineers and graduate students undertaking advanced courses in ASIC chip ...

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From the Foreword: `This book, written by Himanshu Bhatnagar, provides a comprehensive overview of the ASIC design flow targeted for VDSM technologies using the Synopsys suite of tools. It emphasizes the practical issues faced by the semiconductor design engineer in terms of synthesis and the integration of front-end and back-end tools. Traditional design methodologies are challenged and unique solutions are offered to help define the next generation of ASIC design flows. The author provides numerous practical examples derived from real-world situations that will prove valuable to practicing ASIC design engineers as well as to students of advanced VLSI courses in ASIC design'. Dr Dwight W. Decker, Chairman and CEO, Conexant Systems, Inc., (Formerly, Rockwell Semiconductor Systems), Newport Beach, CA, USA.

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This book describes advanced concepts and techniques for ASIC chip synthesis, physical synthesis, formal verification, and static timing analysis using the Synopsys suite of tools. The ASIC design flow methodology targeted for very deep sub-micron (VDSM) technologies is also covered in detail. Emphasis is on real-time application of Synopsys tools used to combat various problems seen at VDSM geometries. A design methodology is presented for handling complex, sub-micron ASIC designs. At each step, problems related to each phase of the design flow are identified and solutions are described. The target audiences for this book are practicing ASIC design engineers and masters level students in advanced VLSI courses on ASIC chip design and DFT techniques. This second edition is updated to the Tcl version of Design Compiler. Bhatnagar is an ASIC Design Group Leader in a semiconductor company. Annotation copyrighted by Book News Inc., Portland, OR.

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Logic synthesis has become a fundamental component of the ASIC design flow, and Logic Synthesis Using Synopsys® has been written for all those who dislike reading manuals but who still like to learn logic synthesis as practised in the real world. The primary focus of the book is Synopsys Design Compiler®: the leading synthesis tool in the EDA marketplace. The book is specially organized to assist designers accustomed to schematic capture based design to develop the required expertise to effectively use the Compiler. Over 100 'classic scenarios' faced by designers using the Design Compiler have been captured and discussed, and solutions provided. The scenarios are based both on personal experiences and actual user queries. A general understanding of the problem-solving techniques provided will help the reader debug similar and more complicated problems. Furthermore,

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several examples and dc-shell scripts are provided. Specifically, Logic Synthesis Using Synopsys® will help the reader develop a better understanding of the synthesis design flow, optimization strategies using the Design Compiler, test insertion using the Test Compiler®, commonly used interface formats such as EDIF and SDF, and design re-use in a synthesis-based design methodology. Examples have been provided in both VHDL and Verilog. Audience: Written with CAD engineers in mind to enable them to formulate an effective synthesis-based ASIC design methodology. Will also assist design teams to better incorporate and effectively integrate synthesis with their existing in-house design methodology and CAD tools.

The Art of Timing Closure is written using a hands-on approach to describe advanced concepts and techniques using Multi-Mode Multi-Corner (MMMC) for an advanced ASIC design implementation. It focuses on the physical design, Static Timing Analysis (STA), formal and physical verification. The scripts in this book are based on Cadence® Encounter System™. However, if the reader uses a different EDA tool, that tool's commands are similar to those shown in this book. The topics covered are as follows: Data Structures Multi-Mode Multi-Corner Analysis Design Constraints Floorplan and Timing Placement and Timing Clock Tree Synthesis Final Route and Timing Design Signoff Rather than go into great technical depth, the author emphasizes short, clear descriptions which are implemented by references to authoritative manuscripts. It is the goal of this book to capture the essence of

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physical design and timing analysis at each stage of the physical design, and to show the reader that physical design and timing analysis engineering should be viewed as a single area of expertise. This book is intended for anyone who is involved in ASIC design implementation -- starting from physical design to final design signoff. Target audiences for this book are practicing ASIC design implementation engineers and students undertaking advanced courses in ASIC design.

This book describes RTL design using Verilog, synthesis and timing closure for System On Chip (SOC) design blocks. It covers the complex RTL design scenarios and challenges for SOC designs and provides practical information on performance improvements in SOC, as well as Application Specific Integrated Circuit (ASIC) designs. Prototyping using modern high density Field Programmable Gate Arrays (FPGAs) is discussed in this book with the practical examples and case studies. The book discusses SOC design, performance improvement techniques, testing and system level verification, while also describing the modern Intel FPGA/XILINX FPGA architectures and their use in SOC prototyping. Further, the book covers the Synopsys Design Compiler (DC) and Prime Time (PT) commands, and how they can be used to optimize complex ASIC/SOC designs. The contents of this book will be useful to students and professionals alike.

iming, timing, timing! That is the main concern of a digital designer charged with

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designing a semiconductor chip. What is it, how is it T described, and how does one verify it? The design team of a large digital design may spend months architecting and iterating the design to achieve the required timing target. Besides functional verification, the timing closure is the major milestone which dictates when a chip can be released to the semiconductor foundry for fabrication. This book addresses the timing verification using static timing analysis for nanometer designs. The book has originated from many years of our working in the area of timing verification for complex nanometer designs. We have come across many design engineers trying to learn the background and various aspects of static timing analysis.

Unfortunately, there is no book currently available that can be used by a working engineer to get acquainted with the details of static timing analysis. The chip designers lack a central reference for information on timing, that covers the basics to the advanced timing verification procedures and techniques.

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