

A close-up, angled view of a microchip's surface, showing a dense grid of square cells and intricate circuitry in shades of blue and purple.

TOP-DOWN DIGITAL VLSI DESIGN

From Architectures to
Gate-Level Circuits and FPGAs



Hubert Kaeslin

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Champaka Ramachandran



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Top-Down Digital VLSI Design Hubert Kaeslin, 2014-12-07 Top Down VLSI Design From Architectures to Gate Level Circuits and FPGAs represents a unique approach to learning digital design Developed from more than 20 years teaching circuit design Doctor Kaeslin's approach follows the natural VLSI design flow and makes circuit design accessible for professionals with a background in systems engineering or digital signal processing It begins with hardware architecture and promotes a system level view first considering the type of intended application and letting that guide your design choices Doctor Kaeslin presents modern considerations for handling circuit complexity throughput and energy efficiency while preserving functionality The book focuses on application specific integrated circuits ASICs which along with FPGAs are increasingly used to develop products with applications in telecommunications IT security biomedical automotive and computer vision industries Topics include field programmable logic algorithms verification modeling hardware synchronous clocking and more Demonstrates a top down approach to digital VLSI design Provides a systematic overview of architecture optimization techniques Features a chapter on field programmable logic devices their technologies and architectures Includes checklists hints and warnings for various design situations Emphasizes design flows that do not overlook important action items and which include alternative options when planning the development of microelectronic circuits

Schaltungs- und Leiterplattendesign im Detail Daniel Schöni, 2017-03-20 Eine Idee für eine elektronische Schaltung wie erhält man ein fertiges Gerät Dies und welche Schritte dazu notwendig sind beantwortet dieses Buch Es soll dem Elektronik Designer systemunabhängig die wichtigsten Grundlagen zum Design von elektronischen Schaltungen Leiterplatten und Baugruppen vermitteln Neben Betrachtungen zur Kondensation einer Idee zu einer konkreten Schaltung geht es um Planung Darstellung der Funktion im Schema Simulation Design und Layout von Leiterplatten sowie die Fertigung von Baugruppen

Digital Integrated Circuit Design Hubert Kaeslin, 2008-04-28 This practical tool independent guide to designing digital circuits takes a unique top down approach reflecting the nature of the design process in industry Starting with architecture design the book comprehensively explains the why and how of digital circuit design using the physics designers need to know and no more

Top-down Digital VLSI Design, 2015 *Practical Low Power Digital VLSI Design* Gary K. Yeap, 2012-10-21 Practical Low Power Digital VLSI Design emphasizes the optimization and trade off techniques that involve power dissipation in the hope that the readers are better prepared the next time they are presented with a low power design problem The book highlights the basic principles methodologies and techniques that are common to most CMOS digital designs The advantages and disadvantages of a particular low power technique are discussed Besides the classical area performance trade off the impact to design cycle time complexity risk testability and reusability are discussed The wide impacts to all aspects of design are what make low power problems challenging and interesting Heavy emphasis is given to top down structured design style with occasional coverage in the semicustom design methodology The examples and design

techniques cited have been known to be applied to production scale designs or laboratory settings The goal of Practical Low Power Digital VLSI Design is to permit the readers to practice the low power techniques using current generation design style and process technology Practical Low Power Digital VLSI Design considers a wide range of design abstraction levels spanning circuit logic architecture and system Substantial basic knowledge is provided for qualitative and quantitative analysis at the different design abstraction levels Low power techniques are presented at the circuit logic architecture and system levels Special techniques that are specific to some key areas of digital chip design are discussed as well as some of the low power techniques that are just appearing on the horizon Practical Low Power Digital VLSI Design will be of benefit to VLSI design engineers and students who have a fundamental knowledge of CMOS digital design *Digital Vlsi Design* Singh Ajay Kumar,2010-06-30 This well organised book provides an in depth coverage of VLSI design engineering which ranges from CMOS logic to physical design automation The book begins with a discussion on the structure and operation of MOS as MOSFET is the basic building block for any VLSI design Then it goes on to explain the various fabrication methods of MOSFET and CMOS implementation and properties of MOS inverter circuit and parasitic parameters and resistances associated with MOSFET which determine and ultimately limit the performance of a digital system Besides it describes design methodology and the concept of the combinational static logic circuits sequential circuit design and CMOS dynamic circuits Finally the book examines semiconductor memory and the importance of adder and multiplier circuits for the VLSI designer Primarily intended as a text for the undergraduate and postgraduate students of Electrical and Electronics Engineering the book would also be of considerable value to designers both beginners and professionals Key Features Provides mathematical derivations for both noise margin and logic voltage Explains all combinational and sequential logics separately Contains a large number of solved and unsolved problems based on issues related to digital VLSI design

Digital VLSI Systems Mohamed I. Elmasry,1985 **VLSI Design** M. Michael Vai,2017-12-19 Very Large Scale Integration VLSI has become a necessity rather than a specialization for electrical and computer engineers This unique text provides Engineering and Computer Science students with a comprehensive study of the subject covering VLSI from basic design techniques to working principles of physical design automation tools to leading edge application specific array processors Beginning with CMOS design the author describes VLSI design from the viewpoint of a digital circuit engineer He develops physical pictures for CMOS circuits and demonstrates the top down design methodology using two design projects a microprocessor and a field programmable gate array The author then discusses VLSI testing and dedicates an entire chapter to the working principles strengths and weaknesses of ubiquitous physical design tools Finally he unveils the frontiers of VLSI He emphasizes its use as a tool to develop innovative algorithms and architecture to solve previously intractable problems VLSI Design answers not only the question of what is VLSI but also shows how to use VLSI It provides graduate and upper level undergraduate students with a complete and congregated view of VLSI engineering *Low-power Digital*

VLSI Design Abdellatif Bellaouar, Mohamed I. Elmasry, 1996 **Digital VLSI Systems Design** Seetharaman Ramachandran, 2007-06-04 This book provides step by step guidance on how to design VLSI systems using Verilog It shows the way to design systems that are device vendor and technology independent Coverage presents new material and theory as well as synthesis of recent work with complete Project Designs using industry standard CAD tools and FPGA boards The reader is taken step by step through different designs from implementing a single digital gate to a massive design consuming well over 100 000 gates All the design codes developed in this book are Register Transfer Level RTL compliant and can be readily used or amended to suit new projects *Top Down VLSI Design Experiments on a Picture Database Computer* Tōkyō Daigaku. Department of Information Science, K. Yamaguchi, T. L. Kunii, 1984 *VLSI Design Environments* George Zobrist, 2000-04-17 VLSI Design Environments investigates design alternatives such as object oriented data modelling The difficulty of automating chip architecture designs is caused by the complexity of the problem The explosion of design decisions make a heuristic approach necessary PLAYOUT aims at the solution of system problems based on hierarchy top down planning silicon compiler presentations advances in encoding logic synthesis and a microarchitecture and logic optimization system PLAYOUT supports the physical design from entering the structure of digital systems to the generation of the mask The concept for autonomous tools with a clear interface to the network description and the simple interface to the graphics is presented This enables the designer to have a great influence on the configuration of the placement of the schematic diagram Substantial progress is being made in behavioural and logic synthesis both of which depend upon specifications

Multi-Level Simulation for VLSI Design D.D. Hill, D.R. Coelho, 2012-12-06 AND BACKGROUND 1.1 CAD Specification and Simulation Computer Aided Design CAD is today a widely used expression referring to the study of ways in which computers can be used to expedite the design process This can include the design of physical systems architectural environments manufacturing processes and many other areas This book concentrates on one area of CAD the design of computer systems Within this area it focusses on just two aspects of computer design the specification and the simulation of digital systems VLSI design requires support in many other CAD areas including automatic layout IC fabrication analysis test generation and others The problem of specification is unique however in that it is often the first one encountered in large chip designs and one that is unlikely ever to be completely automated This is true because until a design's objectives are specified in a machine readable form there is no way for other CAD tools to verify that the target system meets them And unless the specifications can be simulated it is unlikely that designers will have confidence in them since specifications are potentially erroneous themselves In this context the term target system refers to the hardware and or software that will ultimately be fabricated On the other hand since the functionality of a VLSI chip is ultimately determined by its layout geometry one might question the need for CAD tools that work with areas other than layout *VLSI Design Methodologies for Digital Signal Processing Architectures* Magdy A. Bayoumi, 2012-12-06 Designing VLSI systems represents a challenging task It is a

transformation among different specifications corresponding to different levels of design abstraction behavioral structural and physical The behavioral level describes the functionality of the design It consists of two components static and dynamic The static component describes operations whereas the dynamic component describes sequencing and timing The structural level contains information about components control and connectivity The physical level describes the constraints that should be imposed on the floor plan the placement of components and the geometry of the design Constraints of area speed and power are also applied at this level To implement such multilevel transformation a design methodology should be devised taking into consideration the constraints limitations and properties of each level The mapping process between any of these domains is non isomorphic A single behavioral component may be transformed into more than one structural component Design methodologies are the most recent evolution in the design automation era which started off with the introduction and subsequent usage of module generation especially for regular structures such as PLA s and memories A design methodology should offer an integrated design system rather than a set of separate unrelated routines and tools A general outline of a desired integrated design system is as follows Decide on a certain unified framework for all design levels Derive a design method based on this framework Create a design environment to implement this design method

Planning and Managing Top-down, Concurrent VLSI Design Processes Margarida F. Jacome, Stephen W. Director, Carnegie-Mellon University. Engineering Design Research Center, 1995 Abstract In this paper we discuss the general strategies typically embedded in top down design methodologies to control design complexity and show how they can be captured and implemented in a design process planning and management meta tool We also describe such a tool called Minerva Minerva generates a high level problem based representation of the entire design process and based on this representation provides a set of planning and management services that is sufficient to fully support top down design Such services include plan generation plan execution automatic problem reformulation i.e. decomposition support of backtracking for redesign and for problem re definition dynamic sharing of design information among designers cooperating in the same design process tracking of requirements throughout the various levels of abstraction traversed during the design process and effective handling of sub problem interactions in all of the above situations All of these services are offered assuming the most complex scenario i.e. a concurrent distributed design environment

Area and Timing Estimation Techniques for Top-down VLSI Chip Design Champaka Ramachandran, 1994

Vlsi Design Methodologies For Digital Signal Processing Architectures Bayoumi, 2005-01-01

Modern VLSI Design Wayne Wolf, 1998 Techniques for the latest deep submicron mega chip projects The start to finish state of the art guide to VLSI design VLSI design is system design To build high performance cost effective ICs you must understand all aspects of digital design from planning and layout to fabrication and packaging Modern VLSI Design Second Edition Systems on Silicon is a comprehensive bottom up guide to the entire VLSI design process Emphasizing CMOS it focuses on the crucial challenges of deep submicron VLSI design Coverage includes Devices and

layouts transistor structures and characteristics wires vias parasitics design rules layout design and tools Logic gates and combinational logic networks including interconnect delay and crosstalk Sequential machines and sequential system design Subsystem design including high speed adders multipliers ROM SRAM SRAM PGAs and PLAs Floorplanning clock distribution and power distribution Architecture design including VHDL scheduling function unit selection power and testability Chip design methodologies CAD systems and algorithms Modern VLSI Design Second Edition Systems on Silicon offers a complete yet accessible introduction to crosstalk models and optimization It covers minimizing power consumption at every level of abstraction from circuits to architecture and new insights into design for testability techniques that maximize quality despite quicker turnarounds It also presents detailed coverage of the algorithms underlying contemporary VLSI computer aided design software so designers can understand their tools nomatter which ones they choose Whether you re a practicing professional or advanced student this is the sophisticated VLSI design knowledge you need to succeed with tomorrow s most challenging projects *Computer Aids for VLSI Design* Steven M. Rubin,1987 This textbook originally published in 1987 broadly examines the software required to design electronic circuitry including integrated circuits Topics include synthesis and analysis tools graphics and user interface memory representation and more The book also describes a real system called Electric Basic VLSI Design Douglas A. Pucknell,Kamran Eshraghian,1985

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