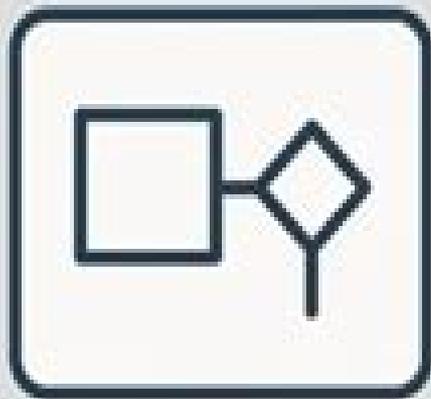


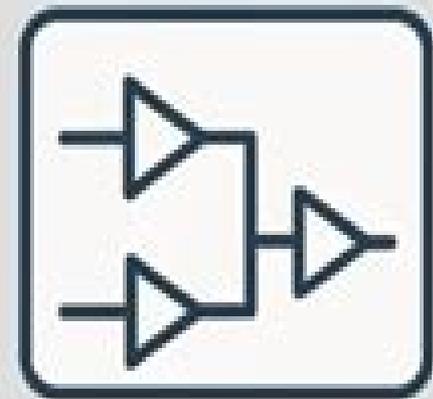
# LOGIC SYNTHESIS IN VLSI



**RTL  
INPUT**



**SYNTHESIS  
TOOL**



**GATE-LEVEL  
OUTPUT**

# Vlsi Logic Synthesis Design

**Institute of Electrical and Electronics  
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## **Vlsi Logic Synthesis Design:**

*Design systems for VLSI circuits* Giovanni DeMicheli, Giovanni De Micheli, P. Antognetti, Alberto Sangiovanni-Vincentelli, 1987-07-31 Proceedings of the NATO Advanced Study Institute L Aquila Italy July 7 18 1986

**Logic Synthesis for Low Power VLSI Designs** Sasan Iman, Massoud Pedram, 1998 Logic Synthesis for Low Power VLSI Designs presents a systematic and comprehensive treatment of power modeling and optimization at the logic level More precisely this book provides a detailed presentation of methodologies algorithms and CAD tools for power modeling estimation and analysis synthesis and optimization at the logic level Logic Synthesis for Low Power VLSI Designs contains detailed descriptions of technology dependent logic transformations and optimizations technology decomposition and mapping and post mapping structural optimization techniques for low power It also emphasizes the trade off techniques for two level and multi level logic circuits that involve power dissipation and circuit speed in the hope that the readers can better understand the issues and ways of achieving their power dissipation goal while meeting the timing constraints Logic Synthesis for Low Power VLSI Designs is written for VLSI design engineers CAD professionals and students who have had a basic knowledge of CMOS digital design and logic synthesis Logic Synthesis for VLSI Design Richard L. Rudell, 1992

Logic Synthesis for Low Power VLSI Designs Sasan Iman, 1996 **VLSI Logic Synthesis and Design** R. W. Dutton, 1991 Very Good No Highlights or Markup all pages are intact **A VLSI Design System for Logic Synthesis from Algorithmic Specifications** Jing Chyuarn Lin, 1992 *High-Level VLSI Synthesis* Raul Camposano, Wayne Wolf, 2012-12-06 The time has come for high level synthesis When research into synthesizing hardware from abstract program like descriptions started in the early 1970 s there was no automated path from the register transfer design produced by high level synthesis to a complete hardware implementation As a result it was very difficult to measure the effectiveness of high level synthesis methods it was also hard to justify to users the need to automate architecture design when low level design had to be completed manually Today s more mature CAD techniques help close the gap between an automatically synthesized design and a manufacturable design Market pressures encourage designers to make use of any and all automated tools Layout synthesis logic synthesis and specialized datapath generators make it feasible to quickly implement a register transfer design in silicon leaving designers more time to consider architectural improvements As IC design becomes more automated customers are increasing their demands today s leading edge designers using logic synthesis systems are training themselves to be tomorrow s consumers of high level synthesis systems The need for very fast turnaround a competitive fabrication market which makes small quantity ASIC manufacturing possible and the ever growing complexity of the systems being designed all make higher level design automation inevitable **VLSI Systems Design**, 1988 Digital VLSI Design with Verilog John Williams, 2008-06-06 Verilog and its usage has come a long way since its original invention in the mid 80s by Phil Moorby At the time the average design size was around ten thousand gates and simulation to validate the

design was its primary usage But between then and now designs have increased dramatically in size and automatic logic synthesis from RTL has become the standard design now for most design Indeed the language has evolved and been re standardized too Over the years many books have been written about Verilog My own coauthored with Phil Moorby had the goal of defining the language and its usage providing amply along the way It has been updated with several new editions as the language and its usage evolved However this new book takes a very different and unique view that of the designer John Michael Williams has a long history of working and teaching in the field of IC and ASIC design He brings an in depth presentation of Verilog and how to use it with logic synthesis tools no other Verilog book has dealt with this topic as deeply as he has If you need to learn Verilog and get up to speed quickly to use it for synthesis this book is for you It is sectioned around a set of lessons including presentation and explanation of new concepts and approaches to design along with lab sessions

**Logic Synthesis for Self-checking VLSI Design** Fadi Yusuf Busaba, 1993 *Logic Synthesis and Optimization* Tsutomu Sasao, 2012-12-06 Logic Synthesis and Optimization presents up to date research information in a pedagogical form The authors are recognized as the leading experts on the subject The focus of the book is on logic minimization and includes such topics as two level minimization multi level minimization application of binary decision diagrams delay optimization asynchronous circuits spectral method for logic design field programmable gate array FPGA design EXOR logic synthesis and technology mapping Examples and illustrations are included so that each contribution can be read independently Logic Synthesis and Optimization is an indispensable reference for academic researchers as well as professional CAD engineers

**Concise Encyclopedia of Software Engineering** Derrick Morris, 2013-10-22 This Concise Encyclopedia of Software Engineering is intended to provide compact coverage of the knowledge relevant to the practicing software engineer The content has been chosen to provide an introduction to the theory and techniques relevant to the software of a broad class of computer applications It is supported by examples of particular applications and their enabling technologies This Encyclopedia will be of value to new practitioners who need a concise overview and established practitioners who need to read about the penumbra surrounding their own specialties It will also be useful to professionals from other disciplines who need to gain some understanding of the various aspects of software engineering which underpin complex information and control systems and the thinking behind them

**International Symposium on Quality Electronic Design**, 2002 Annotation Fifty one papers and 21 posters from the March 2002 symposium report current research in deep submicron integrated circuit design and development The sessions address interconnect extraction and modeling design for process variations metrics power and noise management verification signal integrity and low power design techniques Some of the topics are transition aware global signaling TAGS the interoperability of EDA tools for sequential logic synthesis statistical methods for the determination of process corners power supply noise suppression via clock skew scheduling and the relation between SAT and BDDs for equivalence checking No subject index Annotation copyrighted by Book News Inc Portland OR

**SOC (System-on-a-Chip) Testing for Plug and Play Test Automation** Krishnendu Chakrabarty,2013-04-17 System on a Chip SOC integrated circuits composed of embedded cores are now commonplace Nevertheless there remain several roadblocks to rapid and efficient system integration Test development is seen as a major bottleneck in SOC design and manufacturing capabilities Testing SOCs is especially challenging in the absence of standardized test structures test automation tools and test protocols In addition long interconnects high density and high speed designs lead to new types of faults involving crosstalk and signal integrity SOC System on a Chip Testing for Plug and Play Test Automation is an edited work containing thirteen contributions that address various aspects of SOC testing SOC System on a Chip Testing for Plug and Play Test Automation is a valuable reference for researchers and students interested in various aspects of SOC testing

NEC Research & Development ,1991      Readings in Hardware/Software Co-Design Giovanni De Micheli,Rolf Ernst,Wayne Wolf,2002 This title serves as an introduction and reference for the field with the papers that have shaped the hardware software co design since its inception in the early 90s

**Technologies for Wireless Computing** Anantha P. Chandrakasan,Robert W. Brodersen,2012-12-06 Research over the last decade has brought about the development of high performance systems such as powerful workstations sophisticated computer graphics and multimedia systems such as real time video and speech recognition A significant change in the attitude of users is the desire to have access to this computation at any location without the need to be connected to the wired power source This has resulted in the explosive growth of research and development in the area of wireless computing over the last five years Technologies for Wireless Computing deals with several key technologies required for wireless computing The topics covered include reliable wireless protocols portable terminal design considerations video coding RF circuit design issues and tools display technology energy efficient applications specific and programmable design techniques energy efficiency metrics low voltage process technology and circuit design considerations and CAD tools for low power design at the behavior logic and physical design level Technologies for Wireless Computing is an edited volume of original research comprising invited contributions by leading researchers This research work has also been published as a special issue of the Journal of VLSI Signal Processing Systems Volume 13 Numbers 2 3

**European Conference on Electronic Design Automation (EDA84), 26-30 March 1984** ,1984      *Science Abstracts* ,1995      *Index to IEEE Publications* Institute of Electrical and Electronics Engineers,1998 Issues for 1973 cover the entire IEEE technical literature

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