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TEST RELIABILITY AND SECURITY CHALLENGES IN VLSI SYSTEMS

1996 Ieee Vlsi Test Symposium April 28

Minjie Lin



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IEEE VLSI Test Symposium ,2005 **14th IEEE VLSI Test Symposium** ,1996 18th IEEE VLSI Test Symposium ,2000 Proceedings of a spring 2000 symposium highlighting novel ideas and approaches to current and future problems related to testing of electronic circuits and systems Themes are microprocessor test validation low power BIST and scan technology trends scan related approaches defect driven techniques and system on chip test techniques Other subjects are analog test techniques temperature and process drift issues test compaction and design validation analog BIST and functional test and verification issues Also covered are STIL extension IDDQ test and on line testing and fault tolerance Lacks a subject index Annotation copyrighted by Book News Inc Portland OR *16th IEEE VLSI Test Symposium* ,1998 *17th IEEE VLSI Test Symposium* ,1999 The theme of the April 1999 symposium Scaling deeper to submicron test technology challenges reflects the issues being created by the move toward nanometer technologies Many creative and novel ideas and approaches to the current and future electronic circuit testing related problems are explored **Fourth International Conference on Advances in Power System Control, Operation & Management, 11-13 November 1997** ,1997 *Test and Design-for-Testability in Mixed-Signal Integrated Circuits* Jose Luis Huertas Díaz,2010-02-23 Test and Design for Testability in Mixed Signal Integrated Circuits deals with test and design for test of analog and mixed signal integrated circuits Especially in System on Chip SoC where different technologies are intertwined analog digital sensors RF test is becoming a true bottleneck of present and future IC projects Linking design and test in these heterogeneous systems will have a tremendous impact in terms of test time cost and proficiency Although it is recognized as a key issue for developing complex ICs there is still a lack of structured references presenting the major topics in this area The aim of this book is to present basic concepts and new ideas in a manner understandable for both professionals and students Since this is an active research field a comprehensive state of the art overview is very valuable introducing the main problems as well as the ways of solution that seem promising emphasizing their basis strengths and weaknesses In essence several topics are presented in detail First of all techniques for the efficient use of DSP based test and CAD test tools Standardization is another topic considered in the book with focus on the IEEE 1149 4 Also addressed in depth is the connecting design and test by means of using high level behavioural description techniques specific examples are given Another issue is related to test techniques for well defined classes of integrated blocks like data converters and phase locked loops Besides these specification driven testing techniques fault driven approaches are described as they offer potential solutions which are more similar to digital test methods Finally in Design for Testability and Built In Self Test two other concepts that were taken from digital design are introduced in an analog context and illustrated for the case of integrated filters In summary the purpose of this book is to provide a glimpse on recent research results in the area of testing mixed signal integrated circuits specifically in the topics mentioned above Much of the work reported herein has been performed within cooperative European Research Projects in

which the authors of the different chapters have actively collaborated It is a representative snapshot of the current state of the art in this emergent field *Nano, Quantum and Molecular Computing* Sandeep Kumar Shukla,R. Iris Bahar,2006-02-17 One of the grand challenges in the nano scopic computing era is guarantees of robustness Robust computing system design is confronted with quantum physical probabilistic and even biological phenomena and guaranteeing high reliability is much more difficult than ever before Scaling devices down to the level of single electron operation will bring forth new challenges due to probabilistic effects and uncertainty in guaranteeing zero one based computing Minuscule devices imply billions of devices on a single chip which may help mitigate the challenge of uncertainty by replication and redundancy However such device densities will create a design and validation nightmare with the shear scale The questions that confront computer engineers regarding the current status of nanocomputing material and the reliability of systems built from such miniscule devices are difficult to articulate and answer We have found a lack of resources in the confines of a single volume that at least partially attempts to answer these questions We believe that this volume contains a large amount of research material as well as new ideas that will be very useful for some one starting research in the arena of nanocomputing not at the device level but the problems one would face at system level design and validation when nanoscopic physicality will be present at the device level **Artificial Neural Nets and Genetic Algorithms** George D. Smith,Nigel C. Steele,Rudolf F.

Albrecht,2012-12-06 This is the third in a series of conferences devoted primarily to the theory and applications of artificial neural networks and genetic algorithms The first such event was held in Innsbruck Austria in April 1993 the second in Ales France in April 1995 We are pleased to host the 1997 event in the mediaeval city of Norwich England and to carryon the fine tradition set by its predecessors of providing a relaxed and stimulating environment for both established and emerging researchers working in these and other related fields This series of conferences is unique in recognising the relation between the two main themes of artificial neural networks and genetic algorithms each having its origin in a natural process fundamental to life on earth and each now well established as a paradigm fundamental to continuing technological development through the solution of complex industrial commercial and financial problems This is well illustrated in this volume by the numerous applications of both paradigms to new and challenging problems The third key theme of the series therefore is the integration of both technologies either through the use of the genetic algorithm to construct the most effective network architecture for the problem in hand or more recently the use of neural networks as approximate fitness functions for a genetic algorithm searching for good solutions in an incomplete solution space i e one for which the fitness is not easily established for every possible solution instance *Advances in Electronic Testing* Dimitris Gizopoulos,2006-01-22 *Advances in Electronic Testing Challenges and Methodologies* is a new type of edited volume in the Frontiers in Electronic Testing book series devoted to recent advances in electronic circuits testing The book is a comprehensive elaboration on important topics which capture major research and development efforts today The motivation and inspiration behind this

book is to deliver a thorough text that focuses on the evolution of test technology provides insight about the abiding importance of discussed topics records today's state of the art and industrial practices and trends reveals the challenges for emerging testing methodologies and envisages the future of this journey The book consists of eleven edited chapters written by experts in Defect Oriented Testing Nanometer Technologies Failures and Testing Silicon Debug Delay Testing High Speed Test Interfaces DFT Oriented Low Cost Testers Embedded Cores and System on Chip Testing Memory Testing Mixed Signal Testing RF Testing and Loaded Board Testing Contributing authors are affiliated with in alphabetical order Agilent ARM Balearic Islands Univ IBM Inovys Intel LogicVision Magma Mentor Graphics New Mexico Univ Sandia National Labs Synopsys Teradyne and Texas Instruments Advances in Electronic Testing Challenges and Methodologies is an advanced textbook and reference point for senior undergraduate and graduate students in MSc or PhD tracks professors and research leaders in the electronic testing domain It is also for industry design and test engineers and managers seeking a global view and understanding of test technology practices and methodologies and a dense elaboration on test related issues they face in their development projects There is a definite need for documenting the advances in testing I find the work of this edited volume by Dimitris Gizopoulos and his team of authors to be significant and timely the book provides besides novel test methodologies a collective insight into the emerging aspects of testing This I think is beneficial to practicing engineers and researchers both of whom must stay at the forefront of technology This latest addition to the Frontiers Series is destined to serve an important role From the Foreword by Vishwani D Agrawal Consulting Editor Frontiers in Electronic Testing Book Series

Built-in Fault-Tolerant Computing Paradigm for Resilient Large-Scale Chip Design Xiaowei Li, Guihai Yan, Cheng Liu, 2023-03-01 With the end of Dennard scaling and Moore's law IC chips especially large scale ones now face more reliability challenges and reliability has become one of the mainstay merits of VLSI designs In this context this book presents a built in on chip fault tolerant computing paradigm that seeks to combine fault detection fault diagnosis and error recovery in large scale VLSI design in a unified manner so as to minimize resource overhead and performance penalties Following this computing paradigm we propose a holistic solution based on three key components self test self diagnosis and self repair or 3S for short We then explore the use of 3S for general IC designs general purpose processors network on chip NoC and deep learning accelerators and present prototypes to demonstrate how 3S responds to in field silicon degradation and recovery under various runtime faults caused by aging process variations or radical particles Moreover we demonstrate that 3S not only offers a powerful backbone for various on chip fault tolerant designs and implementations but also has farther reaching implications such as maintaining graceful performance degradation mitigating the impact of verification blind spots and improving chip yield This book is the outcome of extensive fault tolerant computing research pursued at the State Key Lab of Processors Institute of Computing Technology Chinese Academy of Sciences over the past decade The proposed built in on chip fault tolerant computing paradigm has been verified in a broad range of scenarios from small

processors in satellite computers to large processors in HPCs. Hopefully it will provide an alternative yet effective solution to the growing reliability challenges for large scale VLSI designs. *Timing* Sachin Sapatnekar, 2007-05-08 Statistical timing analysis is an area of growing importance in nanometer technologies as the uncertainties associated with process and environmental variations increase and this chapter has captured some of the major efforts in this area. This remains a very active field of research and there is likely to be a great deal of new research to be found in conferences and journals after this book is published. In addition to the statistical analysis of combinational circuits, a good deal of work has been carried out in analyzing the effect of variations on clock skew. Although we will not treat this subject in this book, the reader is referred to LNPS00 HN01 JH01 ABZ03a for details.

7 TIMING ANALYSIS FOR SEQUENTIAL CIRCUITS

7.1 INTRODUCTION

A general sequential circuit is a network of computational nodes (gates and memory elements, registers). The computational nodes may be conceptualized as being clustered together in an acyclic network of gates that forms a combinational logic circuit. A cyclic path in the direction of signal propagation is permitted in the sequential circuit only if it contains at least one register. In general, it is possible to represent any sequential circuit in terms of the schematic shown in Figure 7.1, which has I inputs, O outputs, and M registers. The registers' outputs feed into the combinational logic, which in turn feeds the register inputs. Thus, the combinational logic has $I + M$ inputs and $O + M$ outputs.

Thermal Testing of Integrated Circuits J. Altet, Antonio Rubio, 2013-03-09 Integrated circuits (ICs) have undergone a significant evolution in terms of complexity and performance as a result of the substantial advances made in manufacturing technology. Circuits in their various mixed formats can be made up of tens or even hundreds of millions of devices. They work at extremely low voltages and switch at very high frequencies. Testing of circuits has become an essential process in IC manufacturing in the effort to ensure that the manufactured components have the appropriate levels of quality. Along with the ongoing trend towards more advanced technology and circuit features, major testing challenges are continuously emerging. The use of ambivalent procedures to test the analogue and digital sections of such complex circuits without interfering in their nominal operation is clearly a critical part of today's technological industries. Chapter 1 presents the general purposes and basic concepts related to the testing of integrated circuits, discussing the various strategies and their limitations. Readers who are already familiar with the field may opt to skip this chapter. This book offers a multidisciplinary focus on thermal testing. This is a testing method which is not only suitable for use in combination with other existing techniques but is also backed by a wealth of knowledge and offers exciting opportunities in the form of as yet unexplored areas of research and innovation for industrial applications.

On-Line Testing for VLSI

Michael Nicolaidis, Yervant Zorian, Dhiraj Pradhan, 2013-03-09 Test functions (fault detection, diagnosis, error correction, repair, etc.) that are applied concurrently while the system continues its intended function are defined as on-line testing. In its expanded scope, on-line testing includes the design of concurrent error checking subsystems that can be themselves self-checking fail-safe systems that continue to function correctly even after an error occurs, reliability monitoring,

and self test and fault tolerant designs On Line Testing for VLSI contains a selected set of articles that discuss many of the modern aspects of on line testing as faced today The contributions are largely derived from recent IEEE International On Line Testing Workshops Guest editors Michael Nicolaidis Yervant Zorian and Dhiraj Pradhan organized the articles into six chapters In the first chapter the editors introduce a large number of approaches with an expanded bibliography in which some references date back to the sixties On Line Testing for VLSI is an edited volume of original research comprising invited contributions by leading researchers

Robust Computing with Nano-scale Devices Chao Huang,2010-03-11 Robust Nano Computing focuses on various issues of robust nano computing defect tolerance design for nano technology at different design abstraction levels It addresses both redundancy and configuration based methods as well as fault detecting techniques through the development of accurate computation models and tools The contents present an insightful view of the ongoing researches on nano electronic devices circuits architectures and design methods as well as provide promising directions for future research

Fault Diagnosis of Analog Integrated Circuits Prithviraj Kabisatpathy,Alok Barua,Satyabroto Sinha,2006-01-13 System on Chip SOC having both digital and analog circuits has become increasingly prevalent in integrated circuit manufacturing industry Electronic tests are classified as digital analog and mixed signal Current methodologies for the testing of digital circuits are well developed In contrast methodologies for the testing of analog circuits remain relatively underdeveloped due to the complex nature of analog signals Compared to digital testing analog testing lags far behind in methodologies and tools and therefore demands substantial research and development effort Fault Diagnosis of Analog Integrated Circuits is a textbook for advanced undergraduate and graduate level students as well as practicing engineers The objective of this book is to study the testing and fault diagnosis of analog and analog part of mixed signal circuits A background in analog integrated circuit artificial neural network is desirable but not essential The text covers the testing and fault diagnosis of both bipolar and Metal Oxide Semiconductor MOS circuits Fault model of the devices in analog domain has been introduced in the text The test stimulus generations are also discussed in details Experimental verification of some state of the art techniques has also been presented in the book It also contains problems that can be used as quiz or homework This book enables the reader to test an analog circuit that is implemented either in bipolar or MOS technology

Semiconductors Artur Balasinski,2018-09-03 Because of the continuous evolution of integrated circuit manufacturing ICM and design for manufacturability DfM most books on the subject are obsolete before they even go to press That s why the field requires a reference that takes the focus off of numbers and concentrates more on larger economic concepts than on technical details Semiconductors Integrated Circuit Design for Manufacturability covers the gradual evolution of integrated circuit design ICD as a basis to propose strategies for improving return on investment ROI for ICD in manufacturing Where most books put the spotlight on detailed engineering enhancements and their implications for device functionality in contrast this one offers among other things crucial valuable historical background and

roadmapping all illustrated with examples Presents actual test cases that illustrate product challenges examine possible solution strategies and demonstrate how to select and implement the right one This book shows that DfM is a powerful generic engineering concept with potential extending beyond its usual application in automated layout enhancements centered on proximity correction and pattern density This material explores the concept of ICD for production by breaking down its major steps product definition design layout and manufacturing Averting extended discussion of technology techniques or specific device dimensions the author also avoids the clumsy chapter architecture that can hinder other books on this subject The result is an extremely functional systematic presentation that simplifies existing approaches to DfM outlining a clear set of criteria to help readers assess reliability functionality and yield With careful consideration of the economic and technical trade offs involved in ICD for manufacturing this reference addresses techniques for physical electrical and logical design keeping coverage fresh and concise for the designers manufacturers and researchers defining product architecture and research programs

Stochastic Optimization Ioannis Dritsas, 2011-02-28 Stochastic Optimization Algorithms have become essential tools in solving a wide range of difficult and critical optimization problems Such methods are able to find the optimum solution of a problem with uncertain elements or to algorithmically incorporate uncertainty to solve a deterministic problem They even succeed in fighting uncertainty with uncertainty This book discusses theoretical aspects of many such algorithms and covers their application in various scientific fields

Understanding Logic Locking Kimia Zamiri Azar, Hadi Mardani Kamali, Farimah Farahmandi, Mark Tehranipoor, 2023-09-22 This book demonstrates the breadth and depth of IP protection through logic locking considering both attacker adversary and defender designer perspectives The authors draw a semi chronological picture of the evolution of logic locking during the last decade gathering and describing all the DO s and DON Ts in this approach They describe simple to follow scenarios and guide readers to navigate identify threat models and design evaluation flow for further studies Readers will gain a comprehensive understanding of all fundamentals of logic locking

Random Testing of Digital Circuits Rene David, 2020-11-26 Introduces a theory of random testing in digital circuits for the first time and offers practical guidance for the implementation of random pattern generators signature analyzers design for random testability and testing results Contains several new and unpublished results

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