



MAGENY ABADIR TONY AMBIER



## **Economics Of Electronic Design Manufacture And Test**

Jitendra B. Khare, Wojciech Maly

## **Economics Of Electronic Design Manufacture And Test:**

Economics of Electronic Design, Manufacture and Test M. Abadir, T. Ambler, 1994-09-30 The general understanding of design is that it should lead to a manufacturable product Neither the design nor the process of manufacturing is perfect As a result the product will be faulty will require testing and fixing Where does economics enter this scenario Consider the cost of testing and fixing the product If a manufactured product is grossly faulty or too many of the products are faulty the cost of testing and fixing will be high Suppose we do not like that We then ask what is the cause of the faulty product There must be something wrong in the manufacturing process We trace this cause and fix it Suppose we fix all possible causes and have no defective products We would have eliminated the need for testing Unfortunately things are not so perfect There is a cost involved with finding and eliminating the causes of faults We thus have two costs the cost of testing and fixing we will call it cost 1 and the cost of finding and eliminating causes of faults call it cost 2 Both costs in some way are included in the overall cost of the product If we try to eliminate cost 1 cost 2 goes up and vice versa An economic system of production will minimize the overall cost of the product Economics of Electronic Design Manufacture and Test is a collection of research contributions derived from the Second Workshop on Economics of Design Manufacture and Test written for inclusion in this book

Economics of Electronic Design, Manufacture and Test M. Abadir, T. Ambler, 2013-06-29 The general understanding of design is that it should lead to a manufacturable product Neither the design nor the process of manufacturing is perfect As a result the product will be faulty will require testing and fixing Where does economics enter this scenario Consider the cost of testing and fixing the product If a manufactured product is grossly faulty or too many of the products are faulty the cost of testing and fixing will be high Suppose we do not like that We then ask what is the cause of the faulty product There must be something wrong in the manufacturing process We trace this cause and fix it Suppose we fix all possible causes and have no defective products We would have eliminated the need for testing Unfortunately things are not so perfect There is a cost involved with finding and eliminating the causes of faults We thus have two costs the cost of testing and fixing we will call it cost 1 and the cost of finding and eliminating causes of faults call it cost 2 Both costs in some way are included in the overall cost of the product If we try to eliminate cost 1 cost 2 goes up and vice versa An economic system of production will minimize the overall cost of the product Economics of Electronic Design Manufacture and Test is a collection of research contributions derived from the Second Workshop on Economics of Design Manufacture and Test written for inclusion in this book

Economics of Electronic Design, Manufacture and Test Magdy Abadir, Tony Ambler, 1994 VLSI Custom

Microelectronics Stanley L. Hurst, 1998-11-05 Focuses on the design and production of integrated circuits specifically designed for a particular application from original equipment manufacturers. The book outlines silicon and GaAs semiconductor fabrication techniques and circuit configurations compares custom design style discusses computer aided design tools and more

Essentials of Electronic Testing for Digital, Memory and Mixed-Signal VLSI Circuits M.

Bushnell, Vishwani Agrawal, 2006-04-11 The modern electronic testing has a forty year history Test professionals hold some fairly large conferences and numerous workshops have a journal and there are over one hundred books on testing Still a full course on testing is offered only at a few universities mostly by professors who have a research interest in this area Apparently most professors would not have taken a course on electronic testing when they were students Other than the computer engineering curriculum being too crowded the major reason cited for the absence of a course on electronic testing is the lack of a suitable textbook For VLSI the foundation was provided by semiconductor device techn ogy circuit design and electronic testing In a computer engineering curriculum therefore it is necessary that foundations should be taught before applications The field of VLSI has expanded to systems on a chip which include digital memory and mixed signal subsystems To our knowledge this is the first textbook to cover all three types of electronic circuits We have written this textbook for an undergraduate foundations course on electronic testing Obviously it is too voluminous for a one semester course and a teacher will have to select from the topics We did not restrict such freedom because the selection may depend upon the individual expertise and interests Besides there is merit in having a larger book that will retain its usefulness for the owner even after the completion of the course With equal tenacity we address the needs of three other groups of readers Oriented Testing for CMOS Analog and Digital Circuits Manoj Sachdev, 2013-06-29 Defect oriented testing is expected to play a significant role in coming generations of technology Smaller feature sizes and larger die sizes will make ICs more sensitive to defects that can not be modeled by traditional fault modeling approaches Furthermore with increased level of integration an IC may contain diverse building blocks Such blocks include digital logic PLAs volatile and non volatile memories and analog interfaces For such diverse building blocks traditional fault modeling and test approaches will become increasingly inadequate Defect oriented testing methods have come a long way from a mere interesting academic exercise to a hard industrial reality Many factors have contributed to its industrial acceptance Traditional approaches of testing modern integrated circuits ICs have been found to be inadequate in terms of quality and economics of test In a globally competitive semiconductor market place overall product quality and economics have become very important objectives In addition electronic systems are becoming increasingly complex and demand components of highest possible quality Testing in general and defect oriented testing in particular help in realizing these objectives Defect Oriented Testing for CMOS Analog and Digital Circuits is the first book to provide a complete overview of the subject It is essential reading for all design and test professionals as well as researchers and students working in the field A strength of this book is its breadth Types of designs considered include analog and digital circuits programmable logic arrays and memories Having a fault model does not automatically provide a test Sometimes design for testability hardware is necessary Many design for testability ideas supported by experimental evidence are included from the Foreword by Vishwani D Agrawal A Designer's Guide to Built-In Self-Test Charles E. Stroud, 2005-12-27 A recent technological advance is the art of designing circuits to test

themselves referred to as a Built In Self Test This book is written from a designer's perspective and describes the major BIST approaches that have been proposed and implemented along with their advantages and limitations Defect-Oriented Testing for Nano-Metric CMOS VLSI Circuits Manoj Sachdev, José Pineda de Gyvez, 2007-06-04 Defect oriented testing methods have come a long way from a mere interesting academic exercise to a hard industrial reality Many factors have contributed to its industrial acceptance Traditional approaches of testing modern integrated circuits have been found to be inadequate in terms of quality and economics of test In a globally competitive semiconductor market place overall product quality and economics have become very important objectives In addition electronic systems are becoming increasingly complex and demand components of the highest possible quality Testing in general and defect oriented testing in particular help in realizing these objectives For contemporary System on Chip SoC VLSI circuits testing is an activity associated with every level of integration However special emphasis is placed for wafer level test and final test Wafer level test consists primarily of dc or slow speed tests with current voltage checks per pin under most operating conditions and with test limits properly adjusted Basic digital tests are applied and in some cases low frequency tests to ensure analog RF functionality are exercised as well Final test consists of checking device functionality by exercising RF tests and by applying a comprehensive suite of digital test methods such as I delay fault testing DDQ stuck at testing low voltage testing etc This partitioning choice is actually application dependent Research Perspectives and Case Studies in System Test and Diagnosis John W. Sheppard, William R. Simpson, 2012-12-06 System level testing is becoming increasingly important It is driven by the incessant march of complexity which is forcing us to renew our thinking on the processes and procedures that we apply to test and diagnosis of systems In fact the complexity defines the system itself which for our purposes is any aggregation of related elements that together form an entity of sufficient complexity for which it is impractical to treat all of the elements at the lowest level of detail System approaches embody the partitioning of problems into smaller inter related subsystems that will be solved together Thus words like hierarchical dependence inference model and partitioning are frequent throughout this text Each of the authors deals with the complexity issue in a similar fashion but the real value in a collected work such as this is in the subtle differences that may lead to synthesized approaches that allow even more progress The works included in this volume are an outgrowth of the 2nd International Workshop on System Test and Diagnosis held in Alexandria Virginia in April 1998 The first such workshop was held in Freiburg Germany six years earlier In the current workshop nearly 50 experts from around the world struggled over issues concerning the subject In this volume a select group of workshop participants was invited to provide a chapter that expanded their workshop presentations and incorporated their workshop interactions While we have attempted to present the work as one volume and requested some revision to the work the content of the individual chapters was not edited significantly Consequently you will see different approaches to solving the same problems and occasional disagreement between authors as to definitions or the importance of factors. The works collected in this

volume represent the state of the art in system test and diagnosis and the authors are at the leading edge ofthat science Delay Fault Testing for VLSI Circuits Angela Krstic, Kwang-Ting (Tim) Cheng, 2012-12-06 In the From the Preface early days of digital design we were concerned with the logical correctness of circuits We knew that if we slowed down the clock signal sufficiently the circuit would function correctly With improvements in the semiconductor process technology our expectations on speed have soared A frequently asked question in the last decade has been how fast can the clock run This puts significant demands on timing analysis and delay testing Fueled by the above events a tremendous growth has occurred in the research on delay testing Recent work includes fault models algorithms for test generation and fault simulation and methods for design and synthesis for testability The authors of this book Angela Krstic and Tim Cheng have personally contributed to this research Now they do an even greater service to the profession by collecting the work of a large number of researchers In addition to expounding such a great deal of information they have delivered it with utmost clarity To further the reader's understanding many key concepts are illustrated by simple examples. The basic ideas of delay testing have reached a level of maturity that makes them suitable for practice In that sense this book is the best x DELAY FAULT TESTING FOR VLSI CIRCUITS available guide for an engineer designing or testing VLSI systems Tech niques for path delay testing and for use of slower test equipment to test high speed circuits are of particular interest Interconnect Diagnosis José T. de Sousa, Peter Y.K. Cheung, 2001-02-28 This pioneering text explains how to synthesize digital diagnostic sequences for wire interconnects using boundary scan and how to assess the quality of those sequences It takes a new approach carefully modelling circuit and interconnect faults and applying graph techniques to solve problems

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

Multi-Chip Module Test Strategies Yervant Zorian, 2012-12-06 MCMs today consist of complex and dense VLSI devices mounted into packages that allow little physical access to internal nodes The complexity and cost associated with their test and diagnosis are major obstacles to their use Multi Chip Module Test Strategies presents state of the art test strategies for MCMs This volume of original research is

designed for engineers interested in practical implementations of MCM test solutions and for designers looking for leading edge test and design for testability solutions for their next designs Multi Chip Module Test Strategies consists of eight contributions by leading researchers It is designed to provide a comprehensive and well balanced coverage of the MCM test domain Multi Chip Module Test Strategies has also been published as a special issue of the Journal of Electronic Testing Theory and Applications JETTA Volume 10 Numbers 1 and 2 Introduction to IDDQ Testing S. Chakravarty, Paul J. Thadikaran, 2012-12-06 Testing techniques for VLSI circuits are undergoing many exciting changes The predominant method for testing digital circuits consists of applying a set of input stimuli to the IC and monitoring the logic levels at primary outputs If for one or more inputs there is a discrepancy between the observed output and the expected output then the IC is declared to be defective A new approach to testing digital circuits which has come to be known as IDDQ testing has been actively researched for the last fifteen years In IDDQ testing the steady state supply current rather than the logic levels at the primary outputs is monitored Years of research suggests that IDDQ testing can significantly improve the quality and reliability of fabricated circuits This has prompted many semiconductor manufacturers to adopt this testing technique among them Philips Semiconductors Ford Microelectronics Intel Texas Instruments LSI Logic Hewlett Packard SUN microsystems Alcatel and SGS Thomson This increase in the use of IDDQ testing should be of interest to three groups of individuals associated with the IC business Product Managers and Test Engineers CAD Tool Vendors and Circuit Designers Introduction to IDDQ Testing is designed to educate this community The authors have summarized in one volume the main findings of more than fifteen years of research in this area Reasoning in Boolean Networks Wolfgang Kunz, Dominik Stoffel, 2013-03-09 Reasoning in Boolean Networks provides a detailed treatment of recent research advances in algorithmic techniques for logic synthesis test generation and formal verification of digital circuits The book presents the central idea of approaching design automation problems for logic level circuits by specific Boolean reasoning techniques While Boolean reasoning techniques have been a central element of two level circuit theory for many decades Reasoning in Boolean Networks describes a basic reasoning methodology for multi level circuits This leads to a unified view on two level and multi level logic synthesis The presented reasoning techniques are applied to various CAD problems to demonstrate their usefulness for today s industrially relevant problems Reasoning in Boolean Networks provides lucid descriptions of basic algorithmic concepts in automatic test pattern generation logic synthesis and verification and elaborates their intimate relationship to provide further intuition and insight into the subject Numerous examples are provide for ease in understanding the material Reasoning in Boolean Networks is intended for researchers in logic synthesis VLSI testing and formal verification as well as for integrated circuit designers who want to enhance their understanding of basic CAD methodologies From Contamination to Defects, Faults and Yield Loss Jitendra B. Khare, Wojciech Maly, 2012-12-06 Over the years there has been a large increase in the functionality available on a single integrated circuit This has been

mainly achieved by a continuous drive towards smaller feature sizes larger dies and better packing efficiency However this greater functionality has also resulted in substantial increases in the capital investment needed to build fabrication facilities Given such a high level of investment it is critical for IC manufacturers to reduce manufacturing costs and get a better return on their investment The most obvious method of reducing the manufacturing cost per die is to improve manufacturing yield Modern VLSI research and engineering which includes design manufacturing and testing encompasses a very broad range of disciplines such as chemistry physics material science circuit design mathematics and computer science Due to this diversity the VLSI arena has become fractured into a number of separate sub domains with little or no interaction between them This is the case with the relationships between testing and manufacturing From Contamination to Defects Faults and Yield Loss Simulation and Applications focuses on the core of the interface between manufacturing and testing i e the contamination defect fault relationship The understanding of this relationship can lead to better solutions of many manufacturing and testing problems Failure mechanism models are developed and presented which can be used to accurately estimate probability of different failures for a given IC This information is critical in solving key yield related applications such as failure analysis fault modeling and design manufacturing Realizing Complex Integrated Systems Anthony P. Ambler, John W. Sheppard, 2025-02-20 The creation of complex integrated systems is in itself complex It requires immense planning and a large team of people with diverse backgrounds based in dispersed geographical locations and countries supposedly working to a coordinated schedule and cost The systems engineering task is not new but recent scales most definitely are The world is now capable of designing and manufacturing systems whose complexity was not considered possible 10 years ago While many are trained to think in terms of a complete system where everything is designed and produced by a single project team today such systems involve integrating subsystems and components which are also complex that have been developed by other project teams Inevitably this introduces additional complexities involving elements out of the direct control of the project but which are essential to its overall success In addition to traditional systems engineering topics of hardware and software design testability and manufacturability there are wider issues to be contemplated project planning communication language an issue for international teams units of measure imperial vs metric used across members of the team supply chains pandemics military action and natural disasters legal issues based on place of production and sale the ethics associated with target use and the threat of cyberattack This book is the first attempt to bring many of these issues together to highlight the complexities that need to be considered in modern system design It is neither exhaustive nor comprehensive but it gives pointers to the topics for the reader to follow up on in more detail Cost Analysis Of Electronic Systems (Second Edition) Peter Sandborn, 2016-12-15 This book provides an introduction to the cost modeling for electronic systems that is suitable for advanced undergraduate and graduate students in electrical mechanical and industrial engineering and professionals involved with electronics technology development and management This book melds elements of traditional engineering

economics with manufacturing process and life cycle cost management concepts to form a practical foundation for predicting the cost of electronic products and systems Various manufacturing cost analysis methods are addressed including process flow parametric cost of ownership and activity based costing The effects of learning curves data uncertainty test and rework processes and defects are considered Aspects of system sustainment and life cycle cost modeling including reliability warranty burn in maintenance sparing and availability and obsolescence are treated Finally total cost of ownership of systems return on investment cost benefit analysis and real options analysis are addressed **Design to Test** John Turino, 2012-12-06 This book is the second edition of Design to Test The first edition written by myself and H Frank Binnendyk and first published in 1982 has undergone several printings and become a standard in many companies even in some countries Both Frank and I are very proud of the success that our customers have had in utilizing the information all of it still applicable to today s electronic designs But six years is a long time in any technology field I therefore felt it was time to write a new edition This new edition while retaining the basic testability prin ciples first documented six years ago contains the latest material on state of the art testability techniques for electronic devices boards and systems and has been completely rewritten and up dated Chapter 15 from the first edition has been converted to an appendix Chapter 6 has been expanded to cover the latest tech nology devices Chapter 1 has been revised and several examples throughout the book have been revised and updated But some times the more things change the more they stay the same All of the guidelines and information presented in this book deal with the three basic testability principles partitioning control and visibility They have not changed in years But many people have gotten smarter about how to implement those three basic test ability principles and it is the aim of this text to enlighten the reader regarding those new and old testability implementation techniques

Cost Analysis of Electronic Systems Peter Sandborn,2013 Understanding the cost ramifications of design manufacturing and life cycle management decisions is of central importance to businesses associated with all types of electronic systems Cost Analysis of Electronic Systems contains carefully developed models and theory that practicing engineers can directly apply to the modeling of costs for real products and systems In addition this book brings to light and models many contributions to life cycle costs that practitioners are aware of but never had the tools or techniques to address quantitatively in the past Cost Analysis of Electronic Systems melds elements of traditional engineering economics with manufacturing process and life cycle cost management concepts to form a practical foundation for predicting the cost of electronic products and systems Various manufacturing cost analysis methods are addressed including process flow parametric cost of ownership and activity based costing The effects of learning curves data uncertainty test and rework processes and defects are considered Aspects of system sustainment and life cycle cost modeling including reliability warranty burn in maintenance sparing and availability and obsolescence are treated Finally total cost of ownership of systems and return on investment are addressed Real life design scenarios from integrated circuit fabrication electronic

systems assembly substrate fabrication and electronic systems managementare used as examples of the application of the cost estimation methods developed within the book

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