

Rabab Ezz-Eldin · Magdy Ali El-Moursy
Hesham F.A. Hamed

Analysis and Design of Networks-on- Chip under High Process Variation

 Springer

Online Analysis Design Networks Process Variation

Kornel Terplan



Online Analysis Design Networks Process Variation:

Nanoscale VLSI Rohit Dhiman,Rajeevan Chandel,2020-10-03 This book describes methodologies in the design of VLSI devices circuits and their applications at nanoscale levels The book begins with the discussion on the dominant role of power dissipation in highly scaled devices The 15 Chapters of the book are classified under four sections that cover design modeling and simulation of electronic magnetic and compound semiconductors for their applications in VLSI devices circuits and systems This comprehensive volume eloquently presents the design methodologies for ultra low power VLSI design potential post CMOS devices and their applications from the architectural and system perspectives The book shall serve as an invaluable reference book for the graduate students Ph D M S M Tech Scholars researchers and practicing engineers working in the frontier areas of nanoscale VLSI design Stochastic Process Variation in Deep-Submicron CMOS Amir

Zjajo,2013-11-19 One of the most notable features of nanometer scale CMOS technology is the increasing magnitude of variability of the key device parameters affecting performance of integrated circuits The growth of variability can be attributed to multiple factors including the difficulty of manufacturing control the emergence of new systematic variation generating mechanisms and most importantly the increase in atomic scale randomness where device operation must be described as a stochastic process In addition to wide sense stationary stochastic device variability and temperature variation existence of non stationary stochastic electrical noise associated with fundamental processes in integrated circuit devices represents an elementary limit on the performance of electronic circuits In an attempt to address these issues Stochastic Process Variation in Deep Submicron CMOS Circuits and Algorithms offers unique combination of mathematical treatment of random process variation electrical noise and temperature and necessary circuit realizations for on chip monitoring and performance calibration The associated problems are addressed at various abstraction levels i e circuit level architecture level and system level It therefore provides a broad view on the various solutions that have to be used and their possible combination in very effective complementary techniques for both analog mixed signal and digital circuits The feasibility of the described algorithms and built in circuitry has been verified by measurements from the silicon prototypes fabricated in standard 90 nm and 65 nm CMOS technology **Improving product redesign efficiency in the detailed design phase:**

a structure variation map based on customer environment requirements Yan Xuan,Yu Zheng,Chenxing Zheng,Ziqi Li,Lei Zhang,2022-12-28 Aim The aim of this study is to shorten the product design and development cycle to meet the continuous change and growth of customer environmental requirements Methods The applied research method introduces the concept of the inheritable structure of green products through structural similarity theory and quantitates environmental performance Additionally based on the analysis of the obtained customer ecological requirements a hierarchical mapping method for customer requirements environmental performance weight product structure is proposed which achieves the rapid mapping of customer requirements CRs to product structure in the product design process Then four mutation

operation methods combination decomposition replacement and material change are combined with a genetic algorithm and a method for generating a product structure mutation map is proposed to solve the problem of the non inheritance of some structures in the product design process Finally considering the transmission shell as an example the validity and feasibility of the method are verified Results The case study showed that the overall mass of the rear derailleur dropped by 27 58 kg and the environmental performance of the transmission was mainly related to its mass hence the proposed improvement method effectively improved the environmental performance of the transmission Conclusion The hierarchical mapping method for customer requirements environmental performance weight product structure and the generation method for the product structure variation diagram proposed in this study can shorten the product design and development cycle This research can provide theoretical and methodological support for product design and development

Network-on-Chip Architectures Chrysostomos Nicopoulos,Vijaykrishnan Narayanan,Chita R. Das,2009-09-18 2 The Cell Processor from Sony Toshiba and IBM STI 3 and the Sun UltraSPARC T1 formerly codenamed Niagara 4 signal the growing popularity of such systems Furthermore Intel s very recently announced 80 core TeraFLOP chip 5 exemplifies the irreversible march toward many core systems with tens or even hundreds of processing elements 1 2 The Dawn of the Communication Centric Revolution The multi core thrust has ushered the gradual displacement of the computati centric design model by a more communication centric approach 6 The large sophisticated monolithic modules are giving way to several smaller simpler p cessing elements working in tandem This trend has led to a surge in the popularity of multi core systems which typically manifest themselves in two distinct incarnations heterogeneous Multi Processor Systems on Chip MPSoC and homogeneous Chip Multi Processors CMP The SoC philosophy revolves around the technique of Platform Based Design PBD 7 which advocates the reuse of Intellectual Property IP cores in flexible design templates that can be customized accordingly to satisfy the demands of particular implementations The appeal of such a modular approach lies in the substantially reduced Time To Market TTM incubation period which is a direct outcome of lower circuit complexity and reduced design effort The whole system can now be viewed as a diverse collection of pre existing IP components integrated on a single die

Electronics, Communications and Networks Antonio J. Tallón-Ballesteros,Estefanía Cortés-Ancos,Diego A. López-García,2024-01-15 It is hard to imagine a world without electronic communication networks so dependent have we all become on the networks which now exist and have become part of the fabric of our daily lives This book presents papers from CECNet 2023 the 13th International Conference on Electronics Communications and Networks held as a hybrid event in person in Macau China and online via Microsoft Teams from 17 20 November 2023 This annual conference provides a comprehensive global forum for experts and participants from academia to exchange ideas and present the results of ongoing research in state of the art areas of electronics technology communications engineering and technology wireless communications engineering and technology and computer engineering and technology A total of 324 submissions were

received for the conference and those which qualified by virtue of falling under the scope of the conference topics were exhaustively reviewed by program committee members and peer reviewers taking into account the breadth and depth of the relevant research topics The 101 selected contributions included in this book present innovative original ideas or results of general significance supported by clear and rigorous reasoning and compelling new light in both evidence and method Subjects covered divide broadly into 3 categories electronics technology and VLSI internet technology and signal processing and information communication and communication networks Providing an overview of current research and developments in these rapidly evolving fields the book will be of interest to all those working with digital communications networks

Web-based Systems and Network Management Kornel Terplan, 1999-04-21 Web based technology is rapidly penetrating many business areas including systems and network management This new technology is based on the Internet offering benefits in terms of unification and simplification of systems and network management Web based Systems and Network Management is a practical guide to managing Web based network systems The first serious book on this subject based on a three day seminar developed by the author demonstrates the use of Web technology and shows how the various components of the Internet and Intranets must be economically and securely managed Web based standardization is taking three main directions Port 280 JavaAPI and Wbem Web based Enterprise Management These are discussed in depth and the opportunities and limitations of each are addressed The book not only handles the basics but also gives guidance on their use to simplify systems and network management Measuring the Digital Transformation A Roadmap for the Future

OECD, 2019-03-11 Measuring the Digital Transformation A Roadmap for the Future provides new insights into the state of the digital transformation by mapping indicators across a range of areas from education and innovation to trade and economic and social outcomes against current digital policy issues as presented in Going Digital Shaping Policies Improving Lives

Three-Dimensional Integrated Circuit Design Vasilis F. Pavlidis, Ioannis Savidis, Eby G. Friedman, 2017-07-04 Three Dimensional Integrated Circuit Design Second Edition expands the original with more than twice as much new content adding the latest developments in circuit models temperature considerations power management memory issues and heterogeneous integration 3 D IC experts Pavlidis Savidis and Friedman cover the full product development cycle throughout the book emphasizing not only physical design but also algorithms and system level considerations to increase speed while conserving energy A handy comprehensive reference or a practical design guide this book provides effective solutions to specific challenging problems concerning the design of three dimensional integrated circuits Expanded with new chapters and updates throughout based on the latest research in 3 D integration Manufacturing techniques for 3 D ICs with TSVs Electrical modeling and closed form expressions of through silicon vias Substrate noise coupling in heterogeneous 3 D ICs Design of 3 D ICs with inductive links Synchronization in 3 D ICs Variation effects on 3 D ICs Correlation of WID variations for intra tier buffers and wires Offers practical guidance on designing 3 D heterogeneous systems Provides power delivery of

3 D ICs Demonstrates the use of 3 D ICs within heterogeneous systems that include a variety of materials devices processors GPU CPU integration and more Provides experimental case studies in power delivery synchronization and thermal characterization

Principles of Computer Systems and Network Management Dinesh Chandra Verma,2010-01-23 As computer systems and networks have evolved and grown more complex the role of the IT department in most companies has transformed primarily to ensuring that they continue to operate without disruption IT spending as reported by a variety of studies shows the trend that most of the expenses associated with IT are related to the task of operating and managing installed computer systems and applications Furthermore the growth in that expense category is outstripping the expense associated with developing new applications As a consequence there is a pressing need in the companies and organizations to find qualified people who can manage the installed base of computer systems and networks This marks a significant shift from the previous trend in companies where the bulk of the IT department expenses were targeted on development of new computer applications The shift from developing new applications to managing existing systems is a natural consequence of the maturity of IT industry Computers are now ubiquitous in every walk of life and the number of installed successful applications grows steadily over the time Each installed successful application in a company lasts for a long duration Consequently the number of installed applications is much larger than the number of projects focused on developing new applications While there always will be new applications and systems being developed within companies the predominance of managing and operating existing applications is likely to continue

Sustainable Material Forming and Joining R.Ganesh Narayanan,Jay S Gunasekera,2019-02-06 The main objective of the book is to expose readers to the basics of sustainable material forming and joining technologies and to discuss the relationship between conventional and sustainable processes It also provides case studies for sustainable issues in material forming and joining processes workouts for converting conventional processes to green processes and highlights the importance of awareness on sustainable and green manufacturing through education The book will include green and sustainability concepts in material forming like bulk forming and sheet forming emphasizing hot forming materials development lubrication and minimizing defects Key Features Conceptualizes green and sustainability issues towards efficient material forming and joining Addresses important aspects of sustainable manufacturing by forming operations Presents comparison between traditional and sustainable manufacturing processes Includes practical case studies from industry experts Discusses green and sustainability concepts in material forming like bulk forming and sheet forming emphasizing hot forming materials development lubrication and minimizing defects

Designing Transformative Change Bori Fehér,Janka Csernák,2025-02-08 Design as a discipline has historically demonstrated responsiveness to societal developments and crises However amidst the multifaceted challenges of our times there is a growing discourse surrounding the potential for design to not only react but also serve as a catalyst for transformative change This discourse raises pivotal questions about the role of design in fostering hope generating realistic

solutions and mitigating global and local crises Drawing upon interdisciplinary perspectives and empirical research as well as case studies the contributors to this volume critically examine the evolving role of designers in responding to contemporary crises

The Bloomsbury Handbook of Values and Ethical Change in Transformative Leadership in Higher Education Mary Drinkwater, Yusef Waghid, 2024-08-22 The Bloomsbury Handbook of Values and Ethical Change in Transformative Leadership in Higher Education explores the theoretical and conceptual frameworks which can broaden and deepen an educational leader's knowledge and skill set related to values and ethical change in times of crises and change With contributions from five continents the handbook brings together multi contextual perspectives to the understanding and application of the theoretical and conceptual models in the field A broad range of leadership skills and approaches are explored including collaborative democratic learning centered transactional charismatic transformative transformational Stieglarian nootechnologies agency theory and network leadership Countries covered include Australia Brazil Canada Cyprus India Italy Portugal South Africa and the UK The book forms part of the The Bloomsbury Handbooks of Crises and Transformative Leadership in Higher Education collection brought together by Mary Drinkwater

Handbook of Research Methods in Organizational Change David B. Szabla, David Coghlan, William Pasmore, Jennifer Kim, 2023-08-14 The Handbook of Research Methods in Organizational Change offers innovative and practical information to aid in the successful implementation of research methodologies Written by a collective of experienced scholars it provides inspiration for future academics wishing to advance research into human system changes

Dependable Multicore Architectures at Nanoscale Marco Ottavi, Dimitris Gizopoulos, Salvatore Pontarelli, 2017-08-28 This book provides comprehensive coverage of the dependability challenges in today's advanced computing systems It is an in depth discussion of all the technological and design level techniques that may be used to overcome these issues and analyzes various dependability assessment methods The impact of individual application scenarios on the definition of challenges and solutions is considered so that the designer can clearly assess the problems and adjust the solution based on the specifications in question The book is composed of three sections beginning with an introduction to current dependability challenges arising in complex computing systems implemented with nanoscale technologies and of the effect of the application scenario The second section details all the fault tolerance techniques that are applicable in the manufacture of reliable advanced computing devices Different levels from technology level fault avoidance to the use of error correcting codes and system level checkpointing are introduced and explained as applicable to the different application scenario requirements Finally the third section proposes a roadmap of future trends in and perspectives on the dependability and manufacturability of advanced computing systems from the special point of view of industrial stakeholders Dependable Multicore Architectures at Nanoscale showcases the original ideas and concepts introduced into the field of nanoscale manufacturing and systems reliability over nearly four years of work within COST Action IC1103 MEDIAN a think tank with participants from 27 countries Academic researchers and

graduate students working in multi core computer systems and their manufacture will find this book of interest as will industrial design and manufacturing engineers working in VLSI companies

International Conference on Cognitive based Information Processing and Applications (CIPA 2021) Bernard J. Jansen, Haibo Liang, Jun Ye, 2021-09-26 This book contains papers presented at the International Conference on Cognitive based Information Processing and Applications CIPA held during August 21 2021 online conference since COVID 19 which is divided into a 2 volume book The papers in the second volume represent the various technological advancements in network information processing graphics and image processing medical care machine learning smart cities It caters to postgraduate students researchers and practitioners specializing and working in the area of cognitive inspired computing and information processing

Organizational Change and Information Systems Paolo Spagnoletti, 2013-05-18 This book examines a range of issues emerging from the interaction of Information Technologies and organizational systems It contains a collection of research papers focusing on themes of growing interest in the field of Information Systems Organization Studies and Management The book offers a multidisciplinary view on Information Systems aiming to disseminate academic knowledge It might be particularly relevant to IT practitioners such as information systems managers business managers and IT consultants The volume is divided into six sections each one focusing on a specific theme The content of each section is based on a selection of the best papers original double blind peer reviewed contributions presented at the annual conference of the Italian chapter of AIS which has been held in Rome Italy in September 2012

MEDINFO 2019: Health and Wellbeing e-Networks for All Lucila Ohno-Machado, 2019-11-15 Combining and integrating cross institutional data remains a challenge for both researchers and those involved in patient care Patient generated data can contribute precious information to healthcare professionals by enabling monitoring under normal life conditions and also helping patients play a more active role in their own care This book presents the proceedings of MEDINFO 2019 the 17th World Congress on Medical and Health Informatics held in Lyon France from 25 to 30 August 2019 The theme of this year s conference was Health and Wellbeing E Networks for All stressing the increasing importance of networks in healthcare on the one hand and the patient centered perspective on the other Over 1100 manuscripts were submitted to the conference and after a thorough review process by at least three reviewers and assessment by a scientific program committee member 285 papers and 296 posters were accepted together with 47 podium abstracts 7 demonstrations 45 panels 21 workshops and 9 tutorials All accepted paper and poster contributions are included in these proceedings The papers are grouped under four thematic tracks interpreting health and biomedical data supporting care delivery enabling precision medicine and public health and the human element in medical informatics The posters are divided into the same four groups The book presents an overview of state of the art informatics projects from multiple regions of the world it will be of interest to anyone working in the field of medical informatics

Business Process Change Paul Harmon, 2003 Paul Harman focuses on the process change problems faced by today s

managers He summarizes the state of the art of business process analysis presents a methodology based on best practices and offers detailed case studies **Enterprise, Business-Process and Information Systems Modeling** Selmin Nurcan,Iris Reinhartz-Berger,Pnina Soffer,Jelena Zdravkovic,2020-05-28 This book contains the proceedings of two long running events held along with the CAiSE conference relating to the areas of enterprise business process and information systems modeling the 21st International Conference on Business Process Modeling Development and Support BPMDS 2020 and the 25th International Conference on Exploring Modeling Methods for Systems Analysis and Development EMMSAD 2020 The conferences were planned to take place in Grenoble France during June 8 9 2020 They were held virtually due to the COVID 19 pandemic For BPMDS 13 full papers and 1 short paper were carefully reviewed and selected for publication from a total of 30 submissions for EMMSAD 11 full papers and 4 short papers were accepted from 29 submissions The papers were organized in topical sections named as follows BPMDS Business process execution and monitoring BPM applications in industry and practice planning and scheduling in business processes process mining process models and visualizations EMMSAD Requirements and method engineering enterprise and business modeling software related modeling domain specific modeling evaluation related research On-Chip Power Delivery and Management Inna P. Vaisband,Renatas Jakushokas,Mikhail Popovich,Andrey V. Mezhiba,Selçuk Köse,Eby G. Friedman,2016-04-26 This book describes methods for distributing power in high speed high complexity integrated circuits with power levels exceeding many tens of watts and power supplies below a volt It provides a broad and cohesive treatment of power delivery and management systems and related design problems including both circuit network models and design techniques for on chip decoupling capacitors providing insight and intuition into the behavior and design of on chip power distribution systems Organized into subareas to provide a more intuitive flow to the reader this fourth edition adds more than a hundred pages of new content including inductance models for interdigitated structures design strategies for multi layer power grids advanced methods for efficient power grid design and analysis and methodologies for simultaneously placing on chip multiple power supplies and decoupling capacitors The emphasis of this additional material is on managing the complexity of on chip power distribution networks

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Online Analysis Design Networks Process Variation Introduction

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