



IEEE International Conference on

Microelectronic Test Structures

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1998 Ieee International Conference On Microelectronic Test Structures

**Anne van den Bosch, Michiel
Steyaert, Willy M.C. Sansen**



1998 Ieee International Conference On Microelectronic Test Structures:

Microelectronic Test Structures, 1998. ICMTS 1998., Proceedings of the 1998 International Conference on,1998 **ICMTS 1998** ,1998-01-01 *National Semiconductor Metrology Program, Semiconductor Electronics Division, NIST List Of Publications, LP 103, March 1999* ,1999 National Semiconductor Metrology Program, NIST List OF Publications, LP 103, May 2000 ,2000 *National Semiconductor Metrology Program* National Institute of Standards and Technology (U.S.),National Semiconductor Metrology Program (U.S.),2000 *National Semiconductor Metrology Program* National Semiconductor Metrology Program (U.S.),1999 **ICMTS '98** Hiroshi Koyama,Institute of Electrical and Electronics Engineers,1999 **Tradeoffs and Optimization in Analog CMOS Design** David Binkley,2008-09-15 Analog CMOS integrated circuits are in widespread use for communications entertainment multimedia biomedical and many other applications that interface with the physical world Although analog CMOS design is greatly complicated by the design choices of drain current channel width and channel length present for every MOS device in a circuit these design choices afford significant opportunities for optimizing circuit performance This book addresses tradeoffs and optimization of device and circuit performance for selections of the drain current inversion coefficient and channel length where channel width is implicitly considered The inversion coefficient is used as a technology independent measure of MOS inversion that permits design freely in weak moderate and strong inversion This book details the significant performance tradeoffs available in analog CMOS design and guides the designer towards optimum design by describing An interpretation of MOS modeling for the analog designer motivated by the EKV MOS model using tabulated hand expressions and figures that give performance and tradeoffs for the design choices of drain current inversion coefficient and channel length performance includes effective gate source bias and drain source saturation voltages transconductance efficiency transconductance distortion normalized drain source conductance capacitances gain and bandwidth measures thermal and flicker noise mismatch and gate and drain leakage current Measured data that validates the inclusion of important small geometry effects like velocity saturation vertical field mobility reduction drain induced barrier lowering and inversion level increases in gate referred flicker noise voltage In depth treatment of moderate inversion which offers low bias compliance voltages high transconductance efficiency and good immunity to velocity saturation effects for circuits designed in modern low voltage processes Fabricated design examples that include operational transconductance amplifiers optimized for various tradeoffs in DC and AC performance and micropower low noise preamplifiers optimized for minimum thermal and flicker noise A design spreadsheet available at the book web site that facilitates rapid optimum design of MOS devices and circuits Tradeoffs and Optimization in Analog CMOS Design is the first book dedicated to this important topic It will help practicing analog circuit designers and advanced students of electrical engineering build design intuition rapidly optimize circuit performance during initial design and minimize trial and error circuit simulations **CMOS RF Modeling, Characterization and Applications** M. Jamal

Deen, Tor A. Fjeldly, 2002 CMOS technology has now reached a state of evolution in terms of both frequency and noise where it is becoming a serious contender for radio frequency RF applications in the GHz range Cutoff frequencies of about 50 GHz have been reported for 0.18 μ m CMOS technology and are expected to reach about 100 GHz when the feature size shrinks to 100 nm within a few years This translates into CMOS circuit operating frequencies well into the GHz range which covers the frequency range of many of today's popular wireless products such as cell phones GPS Global Positioning System and Bluetooth Of course the great interest in RF CMOS comes from the obvious advantages of CMOS technology in terms of production cost high level integration and the ability to combine digital analog and RF circuits on the same chip This book discusses many of the challenges facing the CMOS RF circuit designer in terms of device modeling and characterization which are crucial issues in circuit simulation and design

Static and Dynamic Performance Limitations for High Speed D/A Converters Anne van den Bosch, Michiel Steyaert, Willy M.C. Sansen, 2013-06-29 Static and Dynamic Performance Limitations for High Speed D/A Converters discusses the design and implementation of high speed current steering CMOS digital to analog converters Starting from the definition of the basic specifications for a D/A converter the elements determining the static and dynamic performance are identified Different guidelines based on scientific derivations are suggested to optimize this performance Furthermore a new closed formula has been derived to account for the influence of the transistor mismatch on the achievable resolution of the current steering D/A converter To allow a thorough understanding of the dynamic behavior a new factor has been introduced Moreover the frequency dependency of the output impedance introduces harmonic distortion components which can limit the maximum attainable spurious free dynamic range Finally the last part of the book gives an overview on different existing transistor mismatch models and the link with the static performance of the D/A converter

Microelectronics Failure Analysis Desk Reference, Seventh Edition Tejinder Gandhi, 2019-11-01 The Electronic Device Failure Analysis Society proudly announces the Seventh Edition of the Microelectronics Failure Analysis Desk Reference published by ASM International The new edition will help engineers improve their ability to verify isolate uncover and identify the root cause of failures Prepared by a team of experts this updated reference offers the latest information on advanced failure analysis tools and techniques illustrated with numerous real life examples This book is geared to practicing engineers and for studies in the major area of power plant engineering For non metallurgists a chapter has been devoted to the basics of material science metallurgy of steels heat treatment and structure property correlation A chapter on materials for boiler tubes covers composition and application of different grades of steels and high temperature alloys currently in use as boiler tubes and future materials to be used in supercritical ultra supercritical and advanced ultra supercritical thermal power plants A comprehensive discussion on different mechanisms of boiler tube failure is the heart of the book Additional chapters detailing the role of advanced material characterization techniques in failure investigation and the role of water chemistry in tube failures are key contributions to the book

Nanometer Variation-Tolerant SRAM Mohamed Abu Rahma, Mohab Anis, 2012-09-27 Variability is one of the most challenging obstacles for IC design in the nanometer regime. In nanometer technologies, SRAM shows an increased sensitivity to process variations due to low voltage operation requirements, which are aggravated by the strong demand for lower power consumption and cost while achieving higher performance and density. With the drastic increase in memory densities, lower supply voltages and higher variations, statistical simulation methodologies become imperative to estimate memory yield and optimize performance and power. This book is an invaluable reference on robust SRAM circuits and statistical design methodologies for researchers and practicing engineers in the field of memory design. It combines state-of-the-art circuit techniques and statistical methodologies to optimize SRAM performance and yield in nanometer technologies. Provides comprehensive review of state-of-the-art variation-tolerant SRAM circuit techniques. Discusses impact of device-related process variations and how they affect circuit and system performance from a design point of view. Helps designers optimize memory yield with practical statistical design methodologies and yield estimation techniques.

Machine Learning in VLSI Computer-Aided Design Ibrahim (Abe) M. Elfadel, Duane S. Boning, Xin Li, 2019-03-15 This book provides readers with an up-to-date account of the use of machine learning frameworks, methodologies, algorithms, and techniques in the context of computer-aided design (CAD) for very large-scale integrated circuits (VLSI). Coverage includes the various machine learning methods used in lithography, physical design, yield prediction, post-silicon performance analysis, reliability, and failure analysis, power, and thermal analysis, analog design, logic synthesis, verification, and neuromorphic design. Provides up-to-date information on machine learning in VLSI CAD for device modeling, layout verifications, yield prediction, post-silicon validation, and reliability. Discusses the use of machine learning techniques in the context of analog and digital synthesis. Demonstrates how to formulate VLSI CAD objectives as machine learning problems and provides a comprehensive treatment of their efficient solutions. Discusses the tradeoff between the cost of collecting data and prediction accuracy and provides a methodology for using prior data to reduce cost of data collection in the design, testing, and validation of both analog and digital VLSI designs.

From the Foreword: As the semiconductor industry embraces the rising swell of cognitive systems and edge intelligence, this book could serve as a harbinger and example of the osmosis that will exist between our cognitive structures and methods on the one hand and the hardware architectures and technologies that will support them on the other. As we transition from the computing era to the cognitive one, it behooves us to remember the success story of VLSI CAD and to earnestly seek the help of the invisible hand so that our future cognitive systems are used to design more powerful cognitive systems. This book is very much aligned with this on-going transition from computing to cognition, and it is with deep pleasure that I recommend it to all those who are actively engaged in this exciting transformation.

Dr. Ruchir Puri
IBM Fellow, IBM Watson CTO, Chief Architect, IBM T.J. Watson Research Center

The ESD Handbook Steven H. Voldman, 2021-04-12 A practical and comprehensive reference that explores Electrostatic Discharge (ESD) in semiconductor

components and electronic systems The ESD Handbook offers a comprehensive reference that explores topics relevant to ESD design in semiconductor components and explores ESD in various systems Electrostatic discharge is a common problem in the semiconductor environment and this reference fills a gap in the literature by discussing ESD protection Written by a noted expert on the topic the text offers a topic by topic reference that includes illustrative figures discussions and drawings The handbook covers a wide range of topics including ESD in manufacturing garments wrist straps and shoes ESD Testing ESD device physics ESD semiconductor process effects ESD failure mechanisms ESD circuits in different technologies CMOS Bipolar etc ESD circuit types Pin Power Pin to Pin etc and much more In addition the text includes a glossary index tables illustrations and a variety of case studies Contains a well organized reference that provides a quick review on a range of ESD topics Fills the gap in the current literature by providing information from purely scientific and physical aspects to practical applications Offers information in clear and accessible terms Written by the accomplished author of the popular ESD book series Written for technicians operators engineers circuit designers and failure analysis engineers The ESD Handbook contains an accessible reference to ESD design and ESD systems

Parallel and Distributed Computing Alberto Ros, 2010-01-01 The 14 chapters presented in this book cover a wide variety of representative works ranging from hardware design to application development Particularly the topics that are addressed are programmable and reconfigurable devices and systems dependability of GPUs General Purpose Units network topologies cache coherence protocols resource allocation scheduling algorithms peertopeer networks largescale network simulation and parallel routines and algorithms In this way the articles included in this book constitute an excellent reference for engineers and researchers who have particular interests in each of these topics in parallel and distributed computing

Index of Conference Proceedings British Library. Document Supply Centre, 2003

Design Rules in a Semiconductor Foundry Eitan N. Shauly, 2022-11-30 Nowadays over 50% of integrated circuits are fabricated at wafer foundries This book presents a foundry integrated perspective of the field and is a comprehensive and up to date manual designed to serve process device layout and design engineers It comprises chapters carefully selected to cover topics relevant for them to deal with their work The book provides an insight into the different types of design rules DRs and considerations for setting new DRs It discusses isolation gate patterning S D contacts metal lines MOL air gaps and so on It explains in detail the layout rules needed to support advanced planarization processes different types of dummies and related utilities as well as presents a large set of guidelines and layout aware modeling for RF CMOS and analog modules It also discusses the layout DRs for different mobility enhancement techniques and their related modeling listing many of the dedicated rules for static random access memory SRAM embedded polyfuse ePF and LogicNVM The book also provides the setting and calibration of the process parameters set and describes the 28 20 nm planar MOSFET process flow for low power and high performance mobile applications in a step by step manner It includes FEOL and BEOL physical and environmental tests for qualifications together with automotive qualification and

design for automotive DfA Written for the professionals the book belongs to the bookshelf of microelectronic discipline experts

Nyquist AD Converters, Sensor Interfaces, and Robustness Arthur H.M. van Roermund, Andrea Baschirotto, Michiel Steyaert, 2012-11-26 This book is based on the 18 presentations during the 21st workshop on Advances in Analog Circuit Design Expert designers provide readers with information about a variety of topics at the frontier of analog circuit design including Nyquist analog to digital converters capacitive sensor interfaces reliability variability and connectivity This book serves as a valuable reference to the state of the art for anyone involved in analog circuit research and development

Current Sense Amplifiers for Embedded SRAM in High-Performance System-on-a-Chip Designs Bernhard Wicht, 2013-04-17 System on a chip SoC designs result in a wide range of high complexity high value semiconductor products As the technology scales towards smaller feature sizes and chips grow larger a speed limitation arises due to an increased RC delay associated with interconnection wires Innovative circuit techniques are required to achieve the speed needed for high performance signal processing Current sensing is considered as a promising circuit class since it is inherently faster than conventional voltage sense amplifiers However especially in SRAM current sensing has rarely been used so far Practical implementations are challenging because they require sophisticated analog circuit techniques in a digital environment The objective of this book is to provide a systematic and comprehensive insight into current sensing techniques Both theoretical and practical aspects are covered Design guidelines are derived by systematic analysis of different circuit principles Innovative concepts like compensation of the bit line multiplexer and auto power down will be explained based on theory and experimental results The material will be interesting for design engineers in industry as well as researchers who want to learn about and apply current sensing techniques The focus is on embedded SRAM but the material presented can be adapted to single chip SRAM and to any other current providing memory type as well This includes emerging memory technologies like magnetic RAM MRAM and Ovonic Unified Memory OUM Moreover it is also applicable to array like structures such as CMOS camera chips and to circuits for signal transmission along highly capacitive busses

Robust SRAM Designs and Analysis Jawar Singh, Saraju P. Mohanty, Dhiraj K. Pradhan, 2012-08-01 This book provides a guide to Static Random Access Memory SRAM bitcell design and analysis to meet the nano regime challenges for CMOS devices and emerging devices such as Tunnel FETs Since process variability is an ongoing challenge in large memory arrays this book highlights the most popular SRAM bitcell topologies benchmark circuits that mitigate variability along with exhaustive analysis Experimental simulation setups are also included which cover nano regime challenges such as process variation leakage and NBTI for SRAM design and analysis Emphasis is placed throughout the book on the various trade offs for achieving a best SRAM bitcell design Provides a complete and concise introduction to SRAM bitcell design and analysis Offers techniques to face nano regime challenges such as process variation leakage and NBTI for SRAM design and analysis Includes simulation set ups for extracting different design metrics for CMOS technology and emerging devices Emphasizes

different trade offs for achieving the best possible SRAM bitcell design

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