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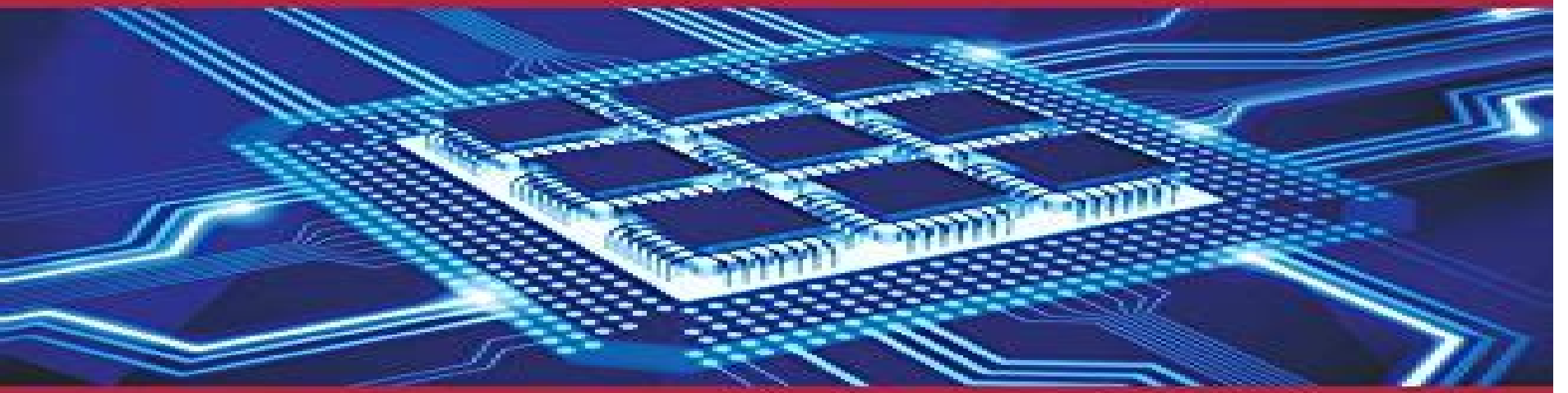

Non-volatile Memories

Pierre Camille Lacaze
Jean-Christophe Lacroix

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Panagiotis Dimitrakis

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Non-volatile Memories Pierre-Camille Lacaze,Jean-Claude Lacroix,2014-12-15 Written for scientists researchers and engineers Non volatile Memories describes the recent research and implementations in relation to the design of a new generation of non volatile electronic memories The objective is to replace existing memories DRAM SRAM EEPROM Flash etc with a universal memory model likely to reach better performances than the current types of memory extremely high commutation speeds high implantation densities and retention time of information of about ten years **Charge-Trapping Non-Volatile Memories** Panagiotis Dimitrakis,2015-08-05 This book describes the basic technologies and operation principles of charge trapping non volatile memories The authors explain the device physics of each device architecture and provide a concrete description of the materials involved as well as the fundamental properties of the technology Modern material properties used as charge trapping layers for new applications are introduced Silicon Non-Volatile Memories Barbara De Salvo,2013-05-10 Semiconductor flash memory is an indispensable component of modern electronic systems which has gained a strategic position in recent decades due to the progressive shift from computing to consumer and particularly mobile products as revenue drivers for Integrated Circuits IC companies This book provides a comprehensive overview of the different technological approaches currently being studied to fulfill future memory requirements Two main research paths are identified and discussed Different evolutionary paths based on the use of new materials such as silicon nanocrystals for storage nodes and high k insulators for active dielectrics and of new transistor structures such as multi gate devices are investigated in order to extend classical floating gate technology to the 32 nm node Disruptive paths based on new storage mechanisms or new technologies such as phase change devices polymer or molecular cross bar memories are also covered in order to address 22 nm and smaller IC generations Finally the main factors at the origin of these phenomena are identified and analyzed providing pointers on future research activities and developments in this area Phase Change Materials-Based Photonic Computing Harish Bhaskaran,Wolfram Pernice,2024-01-21 Phase Change Materials Based Photonic Computing provides a clear introduction to the field introducing concepts of photonics computing phase change materials and future outlooks Phase change materials are well known and studied in many contexts and photonics is a longstanding field with photonic neuromorphic computing recently gathering interest However the two fields are disparate and few people understand the key concepts needed to integrate the two This book will be the first to do so in this promising field It is suitable for researchers and practitioners in academia and industry working in the disciplines of materials science and engineering electrical engineering and computing Introduces the advanced fundamental concepts of photonics computing and phase change materials Reviews the remaining challenges to translation opportunities and future outlooks Addresses definitions historical context foundational concepts and the latest advances of phase change materials based photonics computing Scaled Planar Floating-gate NAND Flash Memory Technology Shyam Sunder Raghunathan,2010

NAND flash memories are ubiquitous in their use as portable storage media in cellphones cameras music players and other portable electronic devices The NAND flash memory device consisting of a floating gate transistor cell is the most aggressively scaled electronic device as evidenced by ever increasing memory capacities In this work we will examine possible problems arising from continued scaling of these structures and discuss novel solutions to overcome them Firstly we investigate scaling of the conventional poly silicon floating gate aimed at reducing cell to cell interference We experimentally delineate a new reliability concern for the first time with programming current through ultra thin poly silicon floating gates becoming increasingly ballistic We also experimentally demonstrate doping related issues in the poly silicon floating gate We then apply a novel metal based floating gate cell for the first time designed to overcome the problems discussed above We explore factors that influence the choice of metal and demonstrate excellent functionality in ultra thin metal floating gate cells scaled down to 3 nm TiN floating gate thickness thus greatly reducing cell to cell interference Finally in order to facilitate continued scaling of the control dielectric we explore replacement of the conventional silicon oxide nitride dielectric with high k dielectric materials We integrate poly silicon and metal floating gate cells with Al2O3 high k control dielectric Further we establish that a deeper work function control gate is helpful in reducing gate injection Combining ultra thin metal floating gate high k control dielectric and deep work function control gate we enable the planar floating gate cell as a scalable candidate **Advances in Neuromorphic Memristor Science and Applications** Robert Kozma,Robinson E. Pino,Giovanni E. Pazienza,2012-06-28 Physical implementation of the memristor at industrial scale sparked the interest from various disciplines ranging from physics nanotechnology electrical engineering neuroscience to intelligent robotics As any promising new technology it has raised hopes and questions it is an extremely challenging task to live up to the high expectations and to devise revolutionary and feasible future applications for memristive devices The possibility of gathering prominent scientists in the heart of the Silicon Valley given by the 2011 International Joint Conference on Neural Networks held in San Jose CA has offered us the unique opportunity of organizing a series of special events on the present status and future perspectives in neuromorphic memristor science This book presents a selection of the remarkable contributions given by the leaders of the field and it may serve as inspiration and future reference to all researchers that want to explore the extraordinary possibilities given by this revolutionary concept Ultra Low Power Electronics and Adiabatic Solutions Hervé Fanet,2016-08-16 The improvement of energy efficiency in electronics and computing systems is currently central to information and communication technology design low cost cooling autonomous portable systems and functioning on recovered energy all need to be continuously improved to allow modern technology to compute more while consuming less This book presents the basic principles of the origins and limits of heat dissipation in electronic systems Mechanisms of energy dissipation the physical foundations for understanding CMOS components and sophisticated optimization techniques are explored in the first half of the book before an introduction to reversible and quantum computing Adiabatic computing

and nano relay technology are then explored as new solutions to achieving improvements in heat creation and energy consumption particularly in renewed consideration of circuit architecture and component technology Concepts inspired by recent research into energy efficiency are brought together in this book providing an introduction to new approaches and technologies which are required to keep pace with the rapid evolution of electronics **Non-Volatile CBRAM/MIM Switching Technology for Electronically Reconfigurable Passive Microwave Devices** Jayakrishnan M. Purushothama,Etienne Perret,Arnaud Vena,2022-03-08 This book presents the applications of non volatile CBRAM MIM switching technology for electronically reconfigurable passive RF and microwave devices together with theory and methods for application in rewritable chipless RFID tags Conductive Bridging Random Access Memory CBRAM is a renowned and commercially used non volatile memory concept Having evolved over the past few decades it is currently identified as an efficient non volatile RF switching technology This book presents recent research on this topic focusing on the development of a new generation of low cost non volatile RF switches and their applications demonstrating both high performance and flexibility of implementation It includes the experimental realization of various prototypes of RF and microwave devices utilizing this technology along with relevant analysis of mathematical and electrical models and detailed discussions of future aspects All devices presented are compatible with mass industrial production at an economically efficient budget through optimized fabrication steps without the requirement of sophisticated clean room processes among them *Flash Memory Integration* Jalil Boukhobza,Pierre Olivier,2017-03-10 4 zettabytes 4 billion terabytes of data generated in 2013 44 zettabytes predicted for 2020 and 185 zettabytes for 2025 These figures are staggering and perfectly illustrate this new era of data deluge Data has become a major economic and social challenge The speed of processing of these data is the weakest link in a computer system the storage system It is therefore crucial to optimize this operation During the last decade storage systems have experienced a major revolution the advent of flash memory Flash Memory Integration Performance and Energy Issues contributes to a better understanding of these revolutions The authors offer us an insight into the integration of flash memory in computer systems their behavior in performance and in power consumption compared to traditional storage systems The book also presents in their entirety various methods for measuring the performance and energy consumption of storage systems for embedded as well as desktop server computer systems We are invited on a journey to the memories of the future Ideal for computer scientists featuring low level details to concentrate on system issues Tackles flash memory aspects while spanning domains such as embedded systems and HPC Contains an exhaustive set of experimental results conducted in the Lab STICC laboratory Provides details on methodologies to perform performance and energy measurements on flash storage systems Multi-Processor System-on-Chip 1 Liliana Andrade,Frederic Rousseau,2021-03-12 A Multi Processor System on Chip MPSoC is the key component for complex applications These applications put huge pressure on memory communication devices and computing units This book presented in two volumes Architectures and Applications

therefore celebrates the 20th anniversary of MPSoC an interdisciplinary forum that focuses on multi core and multi processor hardware and software systems It is this interdisciplinarity which has led to MPSoC bringing together experts in these fields from around the world over the last two decades Multi Processor System on Chip 1 covers the key components of MPSoC processors memory interconnect and interfaces It describes advance features of these components and technologies to build efficient MPSoC architectures All the main components are detailed use of memory and their technology communication support and consistency and specific processor architectures for general purposes or for dedicated applications Simulation of Transport in Nanodevices François Triozon,Philippe Dollfus,2016-11-22 Linear current voltage pattern has been and continues to be the basis for characterizing evaluating performance and designing integrated circuits but is shown not to hold its supremacy as channel lengths are being scaled down In a nanoscale circuit with reduced dimensionality in one or more of the three Cartesian directions quantum effects transform the carrier statistics In the high electric field the collision free ballistic transform is predicted while in low electric field the transport remains predominantly scattering limited In a micro nano circuit even a low logic voltage of 1 V is above the critical voltage triggering nonohmic behavior that results in ballistic current saturation A quantum emission may lower this ballistic velocity *Digital Electronics 2* Tertulien Ndjountche,2016-08-16 As electronic devices become increasingly prevalent in everyday life digital circuits are becoming even more complex and smaller in size This book presents the basic principles of digital electronics in an accessible manner allowing the reader to grasp the principles of combinational and sequential logic and the underlying techniques for the analysis and design of digital circuits Providing a hands on approach this work introduces techniques and methods for establishing logic equations and designing and analyzing digital circuits Each chapter is supplemented with practical examples and well designed exercises with worked solutions This second of three volumes focuses on sequential and arithmetic logic circuits It covers various aspects related to the following topics latch and flip flop binary counters shift registers arithmetic and logic circuits digital integrated circuit technology semiconductor memory programmable logic circuits Along with the two accompanying volumes this book is an indispensable tool for students at a bachelors or masters level seeking to improve their understanding of digital electronics and is detailed enough to serve as a reference for electronic automation and computer engineers **Digital Electronics 1** Tertulien Ndjountche,2016-06-17 The omnipresence of electronic devices in our everyday lives has been accompanied by the downscaling of chip feature sizes and the ever increasing complexity of digital circuits This book is devoted to the analysis and design of digital circuits where the signal can assume only two possible logic levels It deals with the basic principles and concepts of digital electronics It addresses all aspects of combinational logic and provides a detailed understanding of logic gates that are the basic components in the implementation of circuits used to perform functions and operations of Boolean algebra Combinational logic circuits are characterized by outputs that depend only on the actual input values Efficient techniques to derive logic

equations are proposed together with methods of analysis and synthesis of combinational logic circuits Each chapter is well structured and is supplemented by a selection of solved exercises covering logic design practices **Aerospace Actuators 2** Jean-Charles Maré,2017-03-13 This book is the second in a series of volumes which cover the topic of aerospace actuators following a systems based approach This second volume brings an original functional and architectural vision to more electric aerospace actuators The aspects of signal Signal by Wire and power Power by Wire are treated from the point of view of needs their evolution throughout history and operational solutions that are in service or in development This volume is based on an extensive bibliography numerous supporting examples and orders of magnitude which refer to flight controls and landing gear for various aircraft fixed or rotorwing launchers in commercial private and military applications The topics covered in this set of books constitute a significant source of information for individuals and engineers from a variety of disciplines seeking to learn more about aerospace actuation systems and components **Nanothermites** Eric Lafontaine,Marc Comet,2016-07-14 The recent introduction of the nano dimension to pyrotechnics has made it possible to develop a new family of highly reactive substances nanothermites These have a chemical composition that is comparable to that of thermites at submillimeter or micrometric granulometry but with a morphology having a much increased degree of homogeneity This book discusses the methods of preparation of these energetic nanomaterials their specific properties and the different safety aspects inherent in their manipulation *Inorganic Chemistry* Robert Valls,2017-11-30 Using classification diagrams and crystallography elements we describe in this book the bonds in the crystals using the basic patterns The use of various criteria such as ionicity character of the bonds the use of hard sphere models the Pauling rules and the spatial availability of ions all together make it possible to better understand the spatial organization of typical crystals Through original representations the structure and the nature of the bonds in binary crystals of MX and MX2 types as well as the ternary crystals of the perovskite and spinel type are studied Embedded Cryptography 1 Emmanuel Prouff,Guenael Renault,Mattieu Rivain,Colin O'Flynn,2025-02-26 Embedded Cryptography provides a comprehensive exploration of cryptographic techniques tailored for embedded systems addressing the growing importance of security in devices such as mobile systems and IoT The books explore the evolution of embedded cryptography since its inception in the mid 90s and cover both theoretical and practical aspects as well as discussing the implementation of cryptographic algorithms such as AES RSA ECC and post quantum algorithms The work is structured into three volumes spanning forty chapters and nine parts and is enriched with pedagogical materials and real world case studies designed for researchers professionals and students alike offering insights into both foundational and advanced topics in the field Embedded Cryptography 1 is dedicated to software side channel attacks hardware side channel attacks and fault injection attacks

Embedded Cryptography 2 Emmanuel Prouff,Guenael Renault,Mattieu Rivain,Colin O'Flynn,2025-02-26 Embedded Cryptography provides a comprehensive exploration of cryptographic techniques tailored for embedded systems addressing

the growing importance of security in devices such as mobile systems and IoT The books explore the evolution of embedded cryptography since its inception in the mid 90s and cover both theoretical and practical aspects as well as discussing the implementation of cryptographic algorithms such as AES RSA ECC and post quantum algorithms The work is structured into three volumes spanning forty chapters and nine parts and is enriched with pedagogical materials and real world case studies designed for researchers professionals and students alike offering insights into both foundational and advanced topics in the field Embedded Cryptography 2 is dedicated to masking and cryptographic implementations as well as hardware security

Plasma Etching Processes for CMOS Devices Realization Nicolas Posseme,2017-01-25 Plasma etching has long enabled the perpetuation of Moore s Law Today etch compensation helps to create devices that are smaller than 20 nm But with the constant downscaling in device dimensions and the emergence of complex 3D structures like FinFet Nanowire and stacked nanowire at longer term and sub 20 nm devices plasma etching requirements have become more and more stringent Now more than ever plasma etch technology is used to push the limits of semiconductor device fabrication into the nanoelectronics age This will require improvement in plasma technology plasma sources chamber design etc new chemistries etch gases flows interactions with substrates etc as well as a compatibility with new patterning techniques such as multiple patterning EUV lithography Direct Self Assembly ebeam lithography or nanoimprint lithography This book presents these etch challenges and associated solutions encountered throughout the years for transistor realization Helps readers discover the master technology used to pattern complex structures involving various materials Explores the capabilities of cold plasmas to generate well controlled etched profiles and high etch selectivities between materials Teaches users how etch compensation helps to create devices that are smaller than 20 nm La mémorisation dans les ordinateurs 1 Philippe Darche,2025-06-25 La m morisation deuxi me fonction de l ordinateur s est complexifi e progressivement pour r pondre des besoins croissants en capacit rapidit s curit et efficacit nerg tique Elle se mat rialise sous la forme d un composant ou d un syst me comme un sous ensemble de m moires ou un p riph rique de m moire de masse Comprendre ses m canismes internes et son interfa age est essentiel pour ma triser le fonctionnement d un ordinateur et le programmer Agr ment d exemples puis s dans les technologies actuelles et anciennes La m morisation dans les ordinateurs 1 pr sente tout d abord les notions de base de la fonction de m morisation incluant les caract ristiques principales d une m moire g n rique un positionnement technologique et historique et une d finition du concept de hi rarchie des m moires Ce volume d taille ensuite l organisation fonctionnelle interne d une m moire semi conducteurs acc s al atoire et les aspects externes d un syst me m moires Des notions compl mentaires comme le cadrage l ordre de rangement de l information et la d tection correction des erreurs ainsi qu une introduction aux codes d tecteurs et correcteurs d erreurs concluent cet ouvrage

Non Volatile Memories Iste Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Non Volatile Memories Iste**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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