Rino Micheloni Luca Crippa Alessia Marelli

Inside NAND Flash Memories



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Inside NAND Flash Memories Rino Micheloni, Luca Crippa, Alessia Marelli, 2010-07-27 Digital photography MP3 digital video etc make extensive use of NAND based Flash cards as storage media To realize how much NAND Flash memories pervade every aspect of our life just imagine how our recent habits would change if the NAND memories suddenly disappeared To take a picture it would be necessary to find a film as well as a traditional camera disks or even magnetic tapes would be used to record a video or to listen a song and a cellular phone would return to be a simple mean of communication rather than a multimedia console The development of NAND Flash memories will not be set down on the mere evolution of personal entertainment systems since a new killer application can trigger a further success the replacement of Hard Disk Drives HDDs with Solid State Drives SSDs SSD is made up by a microcontroller and several NANDs As NAND is the technology driver for IC circuits Flash designers and technologists have to deal with a lot of challenges Therefore SSD system developers must understand Flash technology in order to exploit its benefits and countermeasure its weaknesses Inside NAND Flash Memories is a comprehensive guide of the NAND world from circuits design analog and digital to Flash reliability including radiation effects from testing issues to high performance DDR interface from error correction codes to NAND applications like Flash cards and SSDs 3D Flash Memories Rino Micheloni, 2016-05-26 This book walks the reader through the next step in the evolution of NAND flash memory technology namely the development of 3D flash memories in which multiple layers of memory cells are grown within the same piece of silicon It describes their working principles device architectures fabrication techniques and practical implementations and highlights why 3D flash is a brand new technology After reviewing market trends for both NAND and solid state drives SSDs the book digs into the details of the flash memory cell itself covering both floating gate and emerging charge trap technologies There is a plethora of different materials and vertical integration schemes out there New memory cells new materials new architectures 3D Stacked BiCS and P BiCS 3D FG 3D VG 3D advanced architectures basically each NAND manufacturer has its own solution Chapter 3 to chapter 7 offer a broad overview of how 3D can materialize The 3D wave is impacting emerging memories as well and chapter 8 covers 3D RRAM resistive RAM crosspoint arrays Visualizing 3D structures can be a challenge for the human brain this is way all these chapters contain a lot of bird's eye views and cross sections along the 3 axes The second part of the book is devoted to other important aspects such as advanced packaging technology i e TSV in chapter 9 and error correction codes which have been leveraged to improve flash reliability for decades Chapter 10 describes the evolution from legacy BCH to the most recent LDPC codes while chapter 11 deals with some of the most recent advancements in the ECC field Last but not least chapter 12 looks at 3D flash memories from a system perspective Is 14nm the last step for planar cells Can 100 layers be integrated within the same piece of silicon Is 4 bit cell possible with 3D Will 3D be reliable enough for enterprise and datacenter applications. These are some of the questions that

this book helps answering by providing insights into 3D flash memory design process technology and applications NAND Flash Memory Technologies Seiichi Aritome, 2015-11-30 Offers a comprehensive overview of NAND flash memories with insights into NAND history technology challenges evolutions and perspectives Describes new program disturb issues data retention power consumption and possible solutions for the challenges of 3D NAND flash memory Written by an authority in NAND flash memory technology with over 25 years experience **Enhanced Search and Efficient Storage Using Data** Compression in NAND Flash Memories Shruti Vyas, 2011 **Control of Harmful Effects During the Program Operation in NAND Flash Memories** Christoph Friederich, 2011 Flash Memory Devices Cristian Zambelli, Rino Micheloni, 2022-02-10 Flash memory devices have represented a breakthrough in storage since their inception in the mid 1980s and innovation is still ongoing The peculiarity of such technology is an inherent flexibility in terms of performance and integration density according to the architecture devised for integration The NOR Flash technology is still the workhorse of many code storage applications in the embedded world ranging from microcontrollers for automotive environment to IoT smart devices Their usage is also forecasted to be fundamental in emerging AI edge scenario On the contrary when massive data storage is required NAND Flash memories are necessary to have in a system You can find NAND Flash in USB sticks cards but most of all in Solid State Drives SSDs Since SSDs are extremely demanding in terms of storage capacity they fueled a new wave of innovation namely the 3D architecture Today 3D means that multiple layers of memory cells are manufactured within the same piece of silicon easily reaching a terabit capacity So far Flash architectures have always been based on floating gate where the information is stored by injecting electrons in a piece of polysilicon surrounded by oxide On the contrary emerging concepts are based on charge trap cells In summary flash memory devices represent the largest landscape of storage devices and we expect more advancements in the coming years This will require a lot of innovation in process technology materials circuit design flash management algorithms Error Correction Code and finally system co design for new applications such as AI and security enforcement Flash Memories Paulo Cappelletti, Carla Golla, Piero Olivo, Enrico Zanoni, 2013-11-27 A Flash memory is a Non Volatile Memory NVM whose unit cells are fabricated in CMOS technology and programmed and erased electrically In 1971 Frohman Bentchkowsky developed a folating polysilicon gate tran sistor 1 2 in which hot electrons were injected in the floating gate and removed by either Ultra Violet UV internal photoemission or by Fowler Nordheim tunneling This is the unit cell of EPROM Electrically Programmable Read Only Memory which consisting of a single transistor can be very densely integrated EPROM memories are electrically programmed and erased by UV exposure for 20 30 mins In the late 1970s there have been many efforts to develop an electrically erasable EPROM which resulted in EEPROMs Electrically Erasable Programmable ROMs EEPROMs use hot electron tunneling for program and Fowler Nordheim tunneling for erase The EEPROM cell consists of two transistors and a tunnel oxide thus it is two or three times the size of an EPROM Successively the combination of hot carrier programming and

tunnel erase was rediscovered to achieve a single transistor EEPROM called Flash EEPROM The first cell based on this concept has been presented in 1979 3 the first commercial product a 256K memory chip has been presented by Toshiba in 1984 4 The market did not take off until this technology was proven to be reliable and manufacturable 5 Flash Memories Detlev Richter, 2013-09-12 The subject of this book is to introduce a model based quantitative performance indicator methodology applicable for performance cost and reliability optimization of non volatile memories. The complex example of flash memories is used to introduce and apply the methodology It has been developed by the author based on an industrial 2 bit to 4 bit per cell flash development project For the first time design and cost aspects of 3D integration of flash memory are treated in this book Cell array performance and reliability effects of flash memories are introduced and analyzed Key performance parameters are derived to handle the flash complexity A performance and array memory model is developed and a set of performance indicators characterizing architecture cost and durability is defined Flash memories are selected to apply the Performance Indicator Methodology to quantify design and technology innovation A graphical representation based on trend lines is introduced to support a requirement based product development process The Performance Indicator methodology is applied to demonstrate the importance of hidden memory parameters for a successful product and system development roadmap Flash Memories offers an opportunity to enhance your understanding of product development key topics such as Reliability optimization of flash memories is all about threshold voltage margin understanding and definition Product performance parameter are analyzed in depth in all aspects in relation to the threshold voltage operation window Technical characteristics are translated into quantitative performance indicators Performance indicators are applied to identify and quantify product and technology innovation within adjacent areas to fulfill the application requirements with an overall cost optimized solution Cost density performance and durability values are combined into a common factor performance indicator which fulfills the application requirements

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