

## Chapter 8

# Semiconductor Memories

(based on Kang, Leblebici. *CMOS Digital Integrated Circuits*)

### 8.1 General concepts

- Data storage capacity available on a single integrated circuit grows exponentially being doubled approximately every two years.
- **Capacity** of the dynamic read/write memory (DRAM) chip exceeds now 1 Gigabit.
- **Data transfer speed** of a standard DRAM is at the level of 200Mb/sec/pin.
- **Static and dynamic power consumption** is of the order of

# Chapter 8 Semiconductor Memories Wordpress

**Walter A. Triebel, Alfred E. Chu**



## **Chapter 8 Semiconductor Memories Wordpress:**

*Semiconductor Memories and Systems* Andrea Redaelli, Fabio Pellizzer, 2022-06-07 *Semiconductor Memories and Systems* provides a comprehensive overview of the current state of semiconductor memory at the technology and system levels. After an introduction on market trends and memory applications, the book focuses on mainstream technologies illustrating their current status, challenges, and opportunities, with special attention paid to scalability paths. Technologies discussed include static random access memory (SRAM), dynamic random access memory (DRAM), non-volatile memory (NVM), and NAND flash memory. Embedded memory and requirements and system level needs for storage class memory are also addressed. Each chapter covers physical operating mechanisms, fabrication technologies, and the main challenges to scalability. Finally, the work reviews the emerging trends for storage class memory, mainly focusing on the advantages and opportunities of phase change based memory technologies. Features contributions from experts from leading companies in semiconductor memory. Discusses physical operating mechanisms, fabrication technologies, and paths to scalability for current and emerging semiconductor memories. Reviews primary memory technologies including SRAM, DRAM, NVM, and NAND flash memory. Includes emerging storage class memory technologies such as phase change memory. **Advanced**

**Semiconductor Memories** Ashok K. Sharma, 2002-10-14 A valuable reference for the most vital microelectronic components in the marketplace. DRAMs are the technology drivers of high volume semiconductor fabrication processes for new generation products that, in addition to computer markets, are finding increased usage in automotive, aviation, military, and space telecommunications and wireless industries. A new generation of high density and high performance memory architectures evolving for mass storage devices, including embedded memories and nonvolatile flash memories, are serving a diverse range of applications. Comprehensive and up to date. **Advanced Semiconductor Memories Architectures Designs and Applications** offers professionals in the semiconductor and related industries an in depth review of advanced semiconductor memories technology developments. It provides details on Static Random Access Memory technologies including advanced architectures, low voltage SRAMs, fast SRAMs, SOI SRAMs, and specialty SRAMs, multiport FIFOs, CAMs, High Performance Dynamic Random Access Memory, DDRs, synchronous DRAM, SGRAM features and architectures, EDRAM, CDRAM, Gigabit DRAM scaling issues and architectures, multilevel storage DRAMs and SOI DRAMs. Applications specific DRAM architectures and designs, VRAMs, DDR, SGRAMs, RDRAMs, SLDRAMs, 3 D RAM. Advanced Nonvolatile Memory designs and technologies including floating gate cell theory, EEPROM, flash memory cell design and multilevel flash, FRAMs, and reliability issues. Embedded memory designs and applications including cache merged processor DRAM architectures, memory cards, and multimedia applications. Future memory directions with megabytes to terabytes storage capacities using RTDs, single electron memories, etc. A continuation of the topics introduced in *Semiconductor Memories Technology Testing and Reliability*, the author's earlier work. **Advanced Semiconductor Memories Architectures Designs and Applications** offers a much needed

reference to the major developments and future directions of advanced semiconductor memory technology      **A User's Handbook of Semiconductor Memories** Eugene R. Hnatek, 1977 A Wiley Interscience publication      *Semiconductor Memories* Betty Prince, 1991 This handbook gives a complete overview to the design manufacture and application of semiconductor memory technology The move towards application specific memories and the new developments in memory applications including smart memories computers and networks are explored The author also details the new trends in memory architecture and functionality such as multiplexing video memory architecture and error correction For embedded memories there is an explanation of the advantages and disadvantages testing methods and reliability Detailed consideration is given to future trends in memories VLSI technology commodity memories smart cards smart houses CIM speech synthesis and recognition RISC architecture neural processors and superconductors source 4 me de couv      *Nanoscale Semiconductor Memories* Santosh K. Kurinec, Krzysztof Iniewski, 2017-07-28 Nanoscale memories are used everywhere From your iPhone to a supercomputer every electronic device contains at least one such type With coverage of current and prototypical technologies *Nanoscale Semiconductor Memories Technology and Applications* presents the latest research in the field of nanoscale memories technology in one place It also covers a myriad of applications that nanoscale memories technology has enabled The book begins with coverage of SRAM addressing the design challenges as the technology scales then provides design strategies to mitigate radiation induced upsets in SRAM It discusses the current state of the art DRAM technology and the need to develop high performance sense amplifier circuitry The text then covers the novel concept of capacitorless 1T DRAM termed as Advanced RAM or A RAM and presents a discussion on quantum dot QD based flash memory Building on this foundation the coverage turns to STT RAM emphasizing scalable embedded STT RAM and the physics and engineering of magnetic domain wall racetrack memory The book also discusses state of the art modeling applied to phase change memory devices and includes an extensive review of RRAM highlighting the physics of operation and analyzing different materials systems currently under investigation The hunt is still on for universal memory that fits all the requirements of an ideal memory capable of high density storage low power operation unparalleled speed high endurance and low cost Taking an interdisciplinary approach this book bridges technological and application issues to provide the groundwork for developing custom designed memory systems      **Semiconductor Memories** , 1980      *Semiconductor Memories* Jerry Eim binder, 1971-01-01      *Rad-hard Semiconductor Memories* Cristiano Calligaro, Umberto Gatti, 2022-09-01 *Rad hard Semiconductor Memories* is intended for researchers and professionals interested in understanding how to design and make a preliminary evaluation of rad hard semiconductor memories making leverage on standard CMOS manufacturing processes available from different silicon foundries and using different technology nodes In the first part of the book a preliminary overview of the effects of radiation in space with a specific focus on memories will be conducted to enable the reader to understand why specific design solutions are adopted to mitigate hard and soft errors The second part will be

devoted to RHBD Radiation Hardening by Design techniques for semiconductor components with a specific focus on memories. The approach will follow a top down scheme starting from RHBD at architectural level how to build a rad hard floor plan at circuit level how to mitigate radiation effects by handling transistors in the proper way and at layout level how to shape a layout to mitigate radiation effects. After the description of the mitigation techniques the book enters in the core of the topic covering SRAMs synchronous asynchronous single port and dual port and PROMs based on AntiFuse OTP technologies describing how to design a rad hard flash memory and fostering RHBD toward emerging memories like ReRAM. The last part will be a leap into emerging memories at a very early stage not yet ready for industrial use in silicon but candidates to become an option for the next wave of rad hard components. Technical topics discussed in the book include Radiation effects on semiconductor components TID SEE Radiation Hardening by Design RHBD Techniques Rad hard SRAMs Rad hard PROMs Rad hard Flash NVMs Rad hard ReRAMs Rad hard emerging technologies

**Semiconductor Memory Design and Application** Gerald Luecke, Jack P. Mize, William N. Carr, 1973      **Handbook of Semiconductor Memories** Michael M. Cirovic, 1981      **Handbook of Semiconductor and Bubble Memories** Walter A. Triebel, Alfred E. Chu, 1982

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web description completely revised and updated treatment wetlands second edition is still the most comprehensive resource available for the planning design and operation of wetland treatment systems the book addresses the design construction and operation of wetlands for water pollution control it presents the best current procedures for

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web the plants used in constructed wetlands serve as a depository of phosphorus metals and other elements kadlec et al 1996 the plants commonly used in the treatment with constructed wetlands are bulrush reeds and cattail typha latifolia and

the trees commonly used in the treatment with constructed wetlands are alders *alnus glutinosa*