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Pulse I-V Characterization of Non-Volatile Memory

Memory and Storage System Design with Nonvolatile Memory Technologies Jishen Zhao^{1,a}) Cong Xu^{2,b}) Ping Chi^{3,c}) Yuan Xie^{3,d}) Received: September 16, 2014, Released: February 12, 2015 Abstract: The memory and storage system, including processor caches, main memory, and storage, is an important component of various computer systems. The memory hierarchy is becoming a fundamental performance and ...

Memory and Storage System Design with Nonvolatile Memory

Nonvolatile memory technologies in Si-based electronics date back to the 1990s. Ferroelectric field-effect transistor (FeFET) was one of the most promising devices replacing the conventional Flash memory facing physical scaling limitations at those times. A variant of charge storage memory referred to as Flash memory is widely used in consumer ...

Overview of emerging nonvolatile memory technologies

At the time, I differentiated them from nonvolatile memories (those whose stored data survives power loss), and in this article I'll go into more detail on the various available nonvolatile memory technology options and their respective strengths and shortcomings.

Fundamentals of nonvolatile memory technologies

Emerging NVM Memory Technologies Yuan Xie Associate Professor The Pennsylvania State University Department of Computer Science & Engineering www.cse.psu.edu/~yuanxie

Emerging NVM Memory Technologies Yuan Xie

This paper will review emerging non-volatile memory (NVM) technologies, with the focus on phase change memory (PCM), spin-transfer-torque random-access-memory (STTRAM), resistive random-access-memory (RRAM), and ferroelectric field-effect-transistor (FeFET) memory.

A review of emerging non-volatile memory (NVM)

Non-volatile memory technologies are essential for the next generation of nano-computing. This chapter highlights several key issues associated with non-volatile memory design based on the emerging memristor

devices. In this chapter, an overview of commonly used memristor device models is provided, and a comprehensive set of properties and design equations for memristor-based memories are ...

Advances in Non-volatile Memory and Storage Technology

10.12 Tunnel Barrier Engineering with Multiple Barriers 10.12.1 Crested Barrier 10.12.2 U-Shaped Barrier
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NONVOLATILE MEMORY TECHNOLOGIES WITH EMPHASIS ON FLASH - GBV

This gives a non-volatile memory comparable to ferroelectric RAM technologies and offer the same functionality as flash memory. Non-volatile main memory [edit] Non-volatile main memory (NVMM) is storage inside Non-Volatile Main Memory chips [17] (Re-RAM) â€“ NVDIMM-P , specifications to be released 2018.

Non-volatile memory - Wikipedia

"For several years now, companies have focused on developing a next generation memory technology that will lead to significant improvements in reliability, performance, low power operation and scalability compared to existing non-volatile memories.

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