

## **ABSTRACT**

Magnetic RAM (MRAM) is a new memory technology with access and cost characteristics comparable to those of conventional dynamic RAM (DRAM) and the non-volatility of magnetic media such as disk. That is MRAM retains its memory even after removing power from the device. Such a non-volatile memory has important military applications for missiles and satellites. Clearly such a device could also have important commercial applications if the non-volatility were accomplished without impacting other properties of the memory, notably density, read and write speed, and lifetime. IBM in cooperation with Infineon is promising to launch this new technology ,that will eliminate the boot-up process of a computer and thus enable it to turn on as instantly as a television or radio, using memory cells based on magnetic tunnel junctions.

This paper discusses the following aspects in detail: Attractions of this new technology  
How MRAM works MRAM Architecture  
Magnetic Tunnel Junctions - future of MRAM Challenges faced Anticipated Applications

## **INTRODUCTION**

You hit the power button on your television and it instantly comes to life. But do the same thing with your computer and you have to wait a few minutes while it goes through its boot up sequence. Why can't we have a computer that turns on as instantly as a television or radio? IBM, in cooperation with Infineon, is promising to launch a new technology in the next few years that will eliminate the boot-up process. Magnetic random access memory (MRAM) has the potential to store more data, access that data faster and use less power than current memory technologies. The key to MRAM is that, as its name suggests, it uses magnetism rather than electrical power to store data. This is a major leap from dynamic RAM (DRAM), the most common type of memory in use today, which requires a continuous supply of electricity and is terribly inefficient. Twenty-five years ago, DRAM overtook ferrite core memory in the race to rule the PC memory market. Now it looks like ferromagnetic technology could be making a comeback, with IBM Corp. and Infineon Technologies charging a joint team of 80 engineers and scientists with the task of making magnetic RAM (MRAM) a commercial reality within four years

## **2. ATTRACTIONS OF THIS NEW TECHNOLOGY**

Consider what happens when power goes off while you are typing on your computer? Unless you are connected to an uninterruptible power supply you lose everything you were working on since you last saved the document. That's because your computer's random access memory (RAM), which stores information for fast access, can't function without power. The same goes for your cellphone and PDA. Both require a battery to keep the RAM intact with your phone numbers and personal data. But IBM researchers have developed a new form of RAM — magnetic RAM (MRAM) — that doesn't forget anything when the power goes out.

MRAM promises to be

Cheap

Fast

Nonvolatile

# Abstract 1 Introduction Infineon

**R Sandford**



**Abstract 1 Introduction Infineon:**

## Whispering the Secrets of Language: An Mental Quest through **Abstract 1 Introduction Infineon**

In a digitally-driven earth where displays reign great and quick connection drowns out the subtleties of language, the profound secrets and emotional subtleties hidden within words often get unheard. Yet, nestled within the pages of **Abstract 1 Introduction Infineon** a fascinating literary prize blinking with fresh thoughts, lies an extraordinary quest waiting to be undertaken. Penned by an experienced wordsmith, this charming opus attracts viewers on an introspective trip, softly unraveling the veiled truths and profound impact resonating within ab muscles material of every word. Within the psychological depths with this emotional evaluation, we shall embark upon a sincere exploration of the book is key styles, dissect their captivating publishing model, and fail to the strong resonance it evokes strong within the recesses of readers hearts.

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