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applications by the 200+ employees of our eMemory company, who are also the authors and author-assistants of this book. This book covers the following Logic NVM products: One Time Programmable (OTP) memory, Multiple Times Programmable (MTP) memory, Flash memory, and Electrically Erasable Programmable Read Only Memory

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memory, and Electrical Erasable and Programmable Read Only Memory (EEPROM). The fundamentals of the NVM are described in this book, which include: the physics and operations of the memory transistors, the basic building block of the memory cells and the access circuits.

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Nonvolatile memory Logic nonvolatile
memory NVM Embedded NVM Floating-
gate transistor Memory cell Memory
array Reliability Data retention
Endurance Disturb Tunneling
Fowler-Nordheim tunneling HCI Hot
carrier injection Band-to-band tunneling

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Coupling ratio Threshold voltage
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Non-volatile memory or non-volatile storage is a type of computer memory that can retrieve stored information

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even after having been power cycled. In contrast, volatile memory needs constant power in order to retain data. Examples of non-volatile memory include flash memory, read-only memory, ferroelectric RAM, most types of magnetic computer storage devices, optical discs, and early computer storage methods such as paper tape and

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punched cards. Non-volatile memory
typically refers to storage in

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semiconductor technology nodes
continue to push into smaller and

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smaller geometries, a pattern has emerged: the basic semiconductor components that define the new node – gates, flip-flops, SRAM, etc. – are put in place with ...

The Answer to Non-Volatile Memory Security Issues at ...

Logix 5000 Controllers Nonvolatile

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Logix 5000 Controllers Nonvolatile Memory Card Programming ...

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10K Multi-time Non-volatile Memory
Macro . Product Brief: TwinBit. TM.

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embedded, true logic-based non-volatile
memory solution with an extremely high
endurance performance of 10K (WRITE)
cycles. TwinBit can be implemented
seamlessly in CMOS logic

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Emerging forms of non-volatile random
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random access memory, phase-change
random access memory, magnetic
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This is due to their ability to merge
storage and computational operations,
such as Boolean logic. This paper
reviews the most common kinds of non-
volatile random access memory and
their physical principles, together with
their relative pros and cons when

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compared with conventional CMOS-
based circuits (Complementary Metal
Oxide Semiconductor).

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Nonvolatile TCAM Circuit Design Based
on Spintronic Technology. As process
technology scales down rapidly,

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conventional SRAM based ternary content-addressable memories (TCAMs) design becomes even more challenging for its aggressive requirements in high storage density, fast access speed, and low power consumption.

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US6828823B1 - Non-volatile and reconfigurable programmable ...

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