



Error Correction Codes for Non-Volatile Memories

Rino Micheloni, A. Marelli, R. Ravasio

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Nowadays it is hard to find an electronic device which does not use codes: for example, we listen to music via heavily encoded audio CD's and we watch movies via encoded DVD's. There is at least one area where the use of encoding/decoding is not so developed, yet: Flash non-volatile memories. Flash memory high-density, low power, cost effectiveness, and scalable design make it an ideal choice to fuel the explosion of multimedia products, like USB keys, MP3 players, digital cameras and solid-state disk.

In *ECC for Non-Volatile Memories* the authors expose the basics of coding theory needed to understand the application to memories, as well as the relevant design topics, with reference to both NOR and NAND Flash architectures. A collection of software routines is also included for better understanding.

The authors form a research group (now at Qimonda) which is the typical example of a fruitful collaboration between mathematicians and engineers.

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