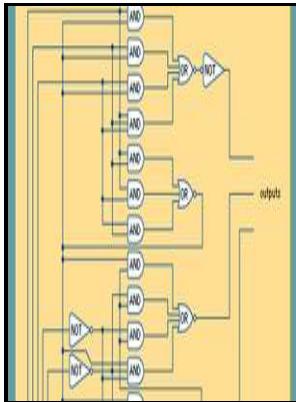


Digital magnetic logic

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Description: -

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Fossil fuels
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Vatican. -- Stanze.
Egidio, -- da Viterbo, Cardinal, -- 1469?-1532.
Raphael, -- 1483-1520.
Electronic digital computers -- Memory systems.Digital magnetic logic
-Digital magnetic logic
Notes: bibl.

This edition was published in 1969



Filesize: 58.83 MB

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With the recent development by researchers into new energy-efficient switching mechanisms, scientists are now looking into how the new physics of nanomagnetism can be used in digital device logic. Only the amplitude of one of those pulses is varied, in the example in FIG.

Logic Signal Voltage Levels

Examples disclosed include a Hall sensor, an MR magnetoresistive sensor and a GMR giant magnetoresistive sensor. The digital sensor proposed here is able to detect that a particular current level is present or not. The circuit is therefore a BCD 8421 counter, an extremely useful device for driving numeric displays via a BCD to 7-segment decoder etc.

Digital Isolator

However, contrary to Embodiment 1, the current under test is provided in either the bit line 23 or word line 24.

Digital Counters

This example would be comparable to the geometry used in FIG.

Magnetic logic

In another embodiment, the initial state of the digital sensor may be set in a preferred orientation, which is however not trivial when a static field is present during a write operation. The principle is shown in FIG. Processors from Intel and others are moving now from 14 nanometer processes down to 10 nanometers, with plans to continue onto 7 nanometers and smaller.

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This solution is however limited to a particular conventional configuration of MRAM stack. It is known to provide on-chip current sensing in systems-on-chip SoC and other integrated circuits IC's. But analog temperature sensors RTD have higher resolution positive and negative

temperature.

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