



Digital Design and Fabrication (Computer Engineering Handbook)

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In response to tremendous growth and new technologies in the semiconductor industry, this volume is organized into five, information-rich sections. **Digital Design and Fabrication** surveys the latest advances in computer architecture and design as well as the technologies used to manufacture and test them. Featuring contributions from leading experts, the book also includes a new section on memory and storage in addition to a new chapter on nonvolatile memory technologies.

Developing advanced concepts, this sharply focused book—

- Describes new technologies that have become driving factors for the electronic industry
- Includes new information on semiconductor memory circuits, whose development best illustrates the phenomenal progress encountered by the fabrication and technology sector
- Contains a section dedicated to issues related to system power consumption
- Describes reliability and testability of computer systems
- Pinpoints trends and state-of-the-art advances in fabrication and CMOS technologies
- Describes performance evaluation measures, which are the bottom line from the user's point of view
- Discusses design techniques used to create modern computer systems, including high-speed computer arithmetic and high-frequency design, timing and clocking, and PLL and DLL design

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