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Computer Science : Processor Architectures

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Multicore Processors and Systems

- Provides a comprehensive overview of emerging multicore processors and systems
- Covers technology trends affecting multicores, multicore architecture innovations, multicore software innovations, and case studies of state-of-the-art commercial multicore systems
- Includes chapters on fundamental requirements for multicore systems, including processing, memory systems, and interconnect
- Contains case studies on commercial multicore systems that have recently been developed and deployed across multiple application domains
- Focuses on innovative multicore execution models as well as infrastructure for multicores, including memory systems and on-chip interconnections in the architecture chapters

Multicore Processors and Systems provides a comprehensive overview of emerging multicore processors and systems. It covers technology trends affecting multicores, multicore architecture innovations, multicore software innovations, and case studies of state-of-the-art commercial multicore systems. A cross-cutting theme of the book is the challenges associated with scaling up multicore systems to hundreds of cores. The book provides an overview of significant developments in the architectures for multicore processors and systems. It includes chapters on fundamental requirements for multicore systems, including processing, memory systems, and interconnect. It also includes several case studies on commercial multicore systems that have recently been developed and deployed across multiple application domains. The architecture chapters focus on innovative multicore execution models as well as infrastructure for multicores, including memory systems and on-chip interconnections. The case studies examine multicore implementations across different application domains, including general purpose, server, media/broadband, network processing, and signal processing. Multicore Processors and Systems is the first book that focuses solely on multicore processors and systems, and in particular on the unique technology implications, architectures, and implementations.

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