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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Setting the Stage -- Software Framework -- Data Flow Computation Models -- Temporal Analysis -- Resource Modeling and Compile Time Scheduling -- Mode-Controlled Data Flow -- Resource Manager -- Demonstrator -- Conclusions and Further Work.
Sommario/riassunto	This book provides a comprehensive overview of the state-of-the-art, data flow-based techniques for the analysis, modeling and mapping technologies of concurrent applications on multi-processors. The authors present a flow for designing embedded hard/firm real-time multiprocessor streaming applications, based on data flow formalisms, with a particular focus on wireless modem applications. Architectures are described for the design tools and run-time scheduling and resource management of such a platform. • Provides a comprehensive overview of the complete design trajectory, based on data flow programming and analysis for multiprocessor systems; • Describes modeling techniques, with an emphasis on different data flow models for budget schedulers, and the modeling of different schedulers; • Discusses other relevant data-flow models of computation, such as cyclo-static data flow and integer and boolean data flow;.