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Soggetti	Electronic circuits Microprocessors Electronics Microelectronics Circuits and Systems Processor Architectures Electronics and Microelectronics, Instrumentation
Lingua di pubblicazione	Inglese
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Note generali	Includes index.
Nota di contenuto	Introduction -- Fundamental Concepts -- Power Modeling and Characterization -- Transaction Level Power Modeling Methodology -- Experimental Results -- Conclusions and Future Work.
Sommario/riassunto	This book describes for readers a methodology for dynamic power estimation, using Transaction Level Modeling (TLM). The methodology exploits the existing tools for RTL simulation, design synthesis and SystemC prototyping to provide fast and accurate power estimation using Transaction Level Power Modeling (TLPM). Readers will benefit from this innovative way of evaluating power on a high level of abstraction, at an early stage of the product life cycle, decreasing the number of the expensive design iterations. Presents an innovative, easy to execute, way for evaluating power consumption on a high-level of abstraction; Introduces a practical methodology for modeling power consumption, using existing design flows; Transaction Level Modeling is used as a new trend in modeling and simulating large circuits.

