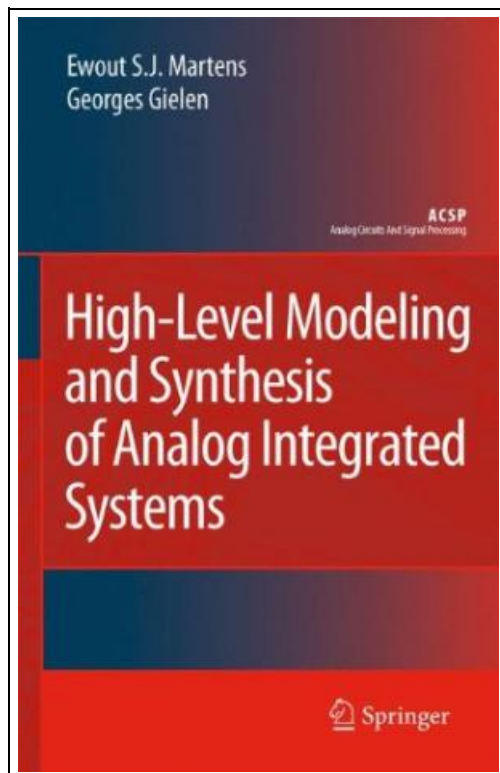


High-Level Modeling and Synthesis of Analog Integrated Systems



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Reviews

Comprehensive guide for publication lovers. It absolutely was written really flawlessly and valuable. You won't really feel monotony at whenever you want of your own time (that's what catalogs are for concerning if you ask me).
(Rowan Gerlach II)

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Springer-Verlag Gmbh Jan 2008, 2008. Buch. Condition: Neu. Neuware - Various approaches for finding optimal values for the parameters of analog cells, like op amps, have been investigated since the mid-1980s, and they have made their entrance in commercial applications. However, a larger impact on the performance is expected if tools are developed which operate on a higher abstraction level and consider multiple architectural choices to realize a particular functionality. High-Level Modeling and Synthesis of Analog Integrated Systems examines the opportunities, conditions, problems, solutions and systematic methodologies for this new generation of analog CAD tools. A new design paradigm is defined for high-level synthesis of AMS systems: the high-level design flow based on generic behavior. This design approach involves a modeling strategy using generic behavioral models and a synthesis strategy leading to the exploration of a heterogeneous design space containing different architectures. In High-Level Modeling and Synthesis of Analog Integrated Systems, two novel generic behavioral models are described. The first one adopts a time-domain approach and is suited for classes like Delta-Sigma modulators and sampled-data systems. For the second model, a new frequency-domain framework has been developed (the Phase-Frequency Transfer model) which allows the representation of classes of RF systems like front-ends of wireless receivers. To complete the high-level design strategy, the synthesis strategy has been concretized with a new top-down heterogeneous optimization algorithm. The general high-level design methodology for AMS systems and its concrete applications developed in this book serve as a fundamental framework for a new generation of analog CAD tools. By providing support for automated design space exploration at the architectural level, they realize an increase in design productivity. 275 pp. Englisch.



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