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Modeling in Analog Design

Series: Current Issues in Electronic Modeling

Modeling in Analog Design highlights some of the most pressing issues in the use of modeling techniques for design of analogue circuits. Using models for circuit design gives designers the power to express directly the behaviour of parts of a circuit in addition to using other pre-defined components. There are numerous advantages to this new category of analog behavioral language. In the short term, by favouring the top-down design and raising the level of description abstraction, this approach provides greater freedom of implementation and a higher degree of technology independence. In the longer term, analog synthesis and formal optimisation are targeted. Modeling in Analog Design introduces the reader to two main language standards: VHDL-A and MHDL. It goes on to provide in-depth examples of the use of these languages to model analog devices. The final part is devoted to the very important topic of modeling the thermal and electrothermal aspects of devices. This book is essential reading for analog designers using behavioral languages and analog CAD tool development environments who have to provide the tools used by the designers.

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