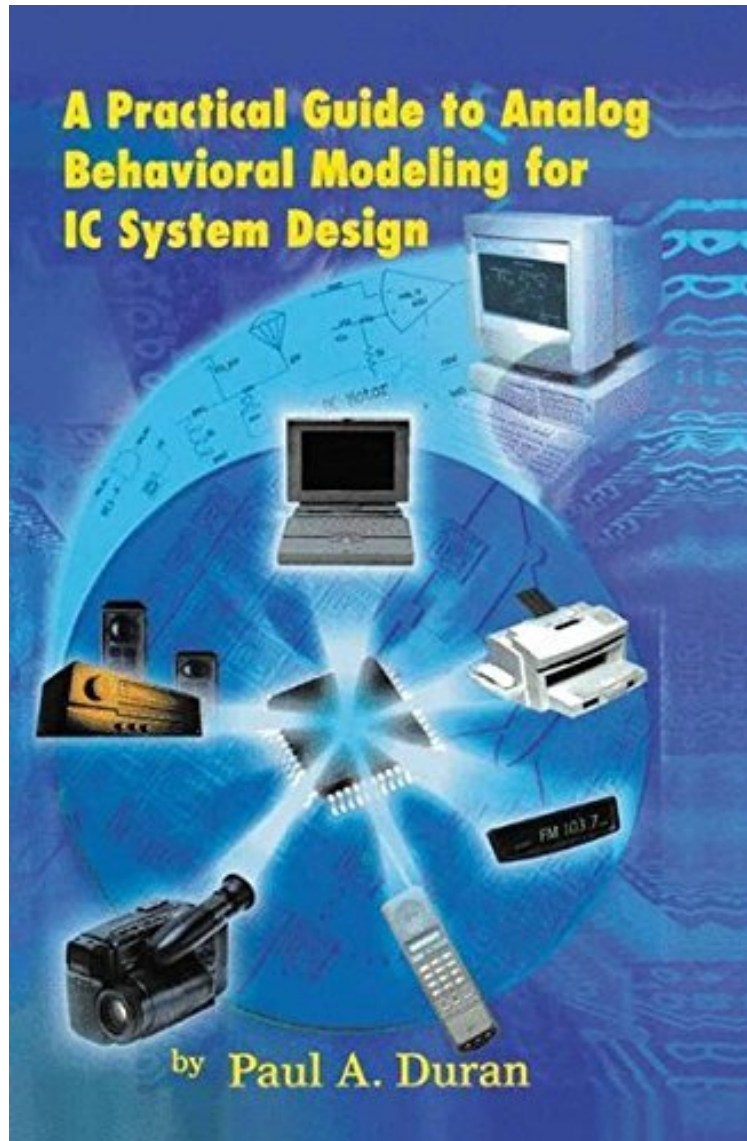


(Ebook free) A Practical Guide to Analog Behavioral Modeling for IC System Design

A Practical Guide to Analog Behavioral Modeling for IC System Design

Von Paul A. Duran

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Von Paul A. Duran : A Practical Guide to Analog Behavioral Modeling for IC System Design before purchasing it in order to gage whether or not it would be worth my time, and all praised A Practical Guide to Analog Behavioral Modeling for IC System Design:

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oriented toward the MAST modeling language. Although it provides a comparison of the different languages which you might use for modeling analog systems (Verilog-A, VHDL-AMS, spice, etc), this book is heavily oriented toward MAST. It has many examples, but all use MAST as the description language. As such, this book is likely to be of little or no use to someone using Verilog-A, spice, etc. If you use MAST, however, this book is probably all you'll ever need.

Kurzbeschreibung A Practical Guide to Analog Behavioral Modeling for IC System Design presents a methodology for abstracting an IC system so that the designer can gain a macroscopic view of how sub-systems interact, as well as verify system functionality in various applications before committing to a design. This will prevent problems that may be caused late in the design-cycle by incompatibilities between the individual blocks that comprise the overall system. This book will focus on the techniques of modelling IC systems through analog behavioral modeling and simulation. It will investigate a practical approach by which designers can put together these systems to analyze topological and architectural issues to optimize IC system performance. Highlights: Discussions on modeling and simulation from SPICE to behavioral simulators Comparison of various hardware description languages and a discussion on the effects of language standardization Explanation on how to reduce time-to-market by decreasing design-cycle time through modeling and simulation Contains more than 25 building block examples that can be used to construct mixed-signal IC system models Analysis of 4 different IC systems using various levels of model detail This book is intended for the practicing engineer who would like to gain practical knowledge in applications of analog behavioral modelling for IC system design.

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