



The SPICE Book

By Andrei Vladimirescu

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Extremely easy-to-follow due to its natural progression tutorial approach on how to advance from the solution of typical electrical and electronic circuit examples by hand, followed by a SPICE verification through the discussion of simulation results. The first part contains relevant data about SPICE in order to analyze both linear passive and electronic circuits. The latter half provides more detail on such topics as distortion models and analysis, basic algorithms in SPICE, analysis option parameters and how to direct SPICE to find a solution when it fails.

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Editorial Review

From the Publisher

Extremely easy-to-follow due to its natural progression tutorial approach on how to advance from the solution of typical electrical and electronic circuit examples by hand, followed by a SPICE verification through the discussion of simulation results. The first part contains relevant data about SPICE in order to analyze both linear passive and electronic circuits. The latter half provides more detail on such topics as distortion models and analysis, basic algorithms in SPICE, analysis option parameters and how to direct SPICE to find a solution when it fails.

From the Back Cover

This new book, written by Andre Vladimirescu, who was instrumental in the development of SPICE at the University of California Berkeley, introduces computer simulation of electrical and electronics circuits based on the SPICE standard. Relying on the functionality first supported in SPICE2 that is now supported in all SPICE programs, this text is addressed to all users of electrical simulation. The approach to learning circuit simulation is to interpret simulation results in relation to electrical engineering fundamentals; the book asks the student to solve most circuit examples by hand before verifying the results with SPICE. Addressed to both the SPICE novice and the experienced user, the first six chapters provide the relevant information on SPICE functionality for the analysis of linear as well as nonlinear circuits. Each of these chapters starts out with a linear example accessible to any new user of SPICE and proceeds with nonlinear transistor circuits. The latter part of the book goes into more detail on such issues as functional and hierarchical models, distortion analysis, basic algorithms in SPICE and related options parameters, and, how to direct SPICE to find a solution when it does not converge to a solution. The approach emphasizes that SPICE is not a substitute for knowledge of circuit operation but a complement. The SPICE Book is different from previously published books in the approach of solving circuit problems with a computer. The solution to most circuit examples is sketched out by hand first and followed by a SPICE verification. For more complex circuits it is not feasible to find the solution by hand but the approach stresses the need for the SPICE user to understand the results. Readers gain a better comprehension of SPICE thanks to the importance placed on the relation between EE fundamentals and computer simulation. The tutorial approach advances from the hand solution of a circuit to SPICE verification and simulation results interpretation. This book teaches the approach to electrical circuit simulation rather than a specific simulation program. Examples are simulated alternatively with SPICE2, SPICE3 or PSPICE. Accurate descriptions, simulation rationale and cogent explanations make this an invaluable reference.

Users Review

From reader reviews:

Michael Canton:

Do you have favorite book? Should you have, what is your favorite's book? Reserve is very important thing for us to understand everything in the world. Each book has different aim or perhaps goal; it means that publication has different type. Some people sense enjoy to spend their time for you to read a book. They are reading whatever they have because their hobby is definitely reading a book. Consider the person who don't like examining a book? Sometime, particular person feel need book after they found difficult problem as well as exercise. Well, probably you will want this The SPICE Book.

Joseph Sutton:

As people who live in the particular modest era should be upgrade about what going on or information even knowledge to make these individuals keep up with the era which can be always change and move ahead. Some of you maybe will update themselves by examining books. It is a good choice for yourself but the problems coming to an individual is you don't know what type you should start with. This The SPICE Book is our recommendation to make you keep up with the world. Why, since this book serves what you want and wish in this era.

Jordan Miller:

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