PSPICE and MATLAB for Electronics: An Integrated Approach (VLSI Circuits)

By John Okyere Attia

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PSPICE has circuit simulation features unmatched by any other scientific software. MATLAB's capabilities for matrix computations, plotting, data processing, and analysis are well established throughout the world. Together, these two software packages form a powerful, full-function toolbox for electronic circuit analysis.

PSPICE and MATLAB for Electronics offers the first integrated presentation of both of these software packages. It provides a PSPICE primer, a MATLAB primer, and an in-depth treatment of their combined power for solving electronics problems, particularly those associated with diodes, op-amps, and transistor circuits. The author takes a practical approach, provides a multitude of examples, and encourages readers to put what they've learned into practice through the many exercises provided in each chapter. All of the PSPICE netlists and MATLAB m-files used in the examples are available on the Internet at www.crcpress.com.

Anyone working or aspiring to work in electronics needs a familiarity with these products, and learning to use them together offers more than the sum of their advantages. Use PSPICE for circuit analysis, use MATLAB for calculating device parameters, curve fitting, numerical functions, and plots, and use PSPICE and MATLAB for Electronics to learn how they can work in tandem to effectively and efficiently explore device characteristics and analyze circuits and systems.

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Editorial Review

Review
This textbook describes the combined abilities of PSPICE and MATLAB packages in solving integrated circuits and processing analysis data…The heart of the book is the final three chapters, which describe the analysis of diode circuits, operational amplifiers, and transistor circuits, clearly exposing the power of the integrated usage of PSPICE and MATLAB.

…The most important accomplishment of the author lies in [chapters 5-7]. With the ease of using a high-level language, the book describes the combined power of PSPICE and MATLAB programming for analyzing diode, op-amps, and transistor circuits…These chapters are bound to motivate any enthusiastic electronic engineer interested in simulation, modeling, and analysis of electronic circuits.

This book has clearly exposed the strength of the integrated usage of PSPICE and MATLAB packages in solving electronic circuits. The numerous examples, both worked out and homework problems should provide the reader a good knowledge of the integrated usage of PSPICE and MATLAB packages…
-K. Vasudevan, University of Bridgeport, Connecticut, USA

Each chapter contains a large number of worked PSPICE and MATLAB examples…Highly recommended as a useful addition for lower-division undergraduates through professionals, and two-year technical program students.
- CHOICE, December 2002

Users Review

From reader reviews:

Rigoberto Hamilton:

The experience that you get from PSPICE and MATLAB for Electronics: An Integrated Approach (VLSI Circuits) will be the more deep you digging the information that hide inside the words the more you get considering reading it. It doesn't mean that this book is hard to recognise but PSPICE and MATLAB for Electronics: An Integrated Approach (VLSI Circuits) giving you excitement feeling of reading. The writer conveys their point in specific way that can be understood by anyone who read the item because the author of this publication is well-known enough. This book also makes your own personal vocabulary increase well. It is therefore easy to understand then can go together with you, both in printed or e-book style are available. We recommend you for having this particular PSPICE and MATLAB for Electronics: An Integrated Approach (VLSI Circuits) instantly.

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