



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:

Matilda Greiner:

The reason why? Because this PSPICE and MATLAB for Electronics: An Integrated Approach (VLSI Circuits) is an unordinary book that the inside of the guide waiting for you to snap this but latter it will surprise you with the secret it inside. Reading this book close to it was fantastic author who all write the book in such remarkable way makes the content within easier to understand, entertaining approach but still convey the meaning completely. So , it is good for you because of not hesitating having this any more or you going to regret it. This phenomenal book will give you a lot of advantages than the other book include such as help improving your skill and your critical thinking approach. So , still want to hold up having that book? If I had been you I will go to the book store hurriedly.

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