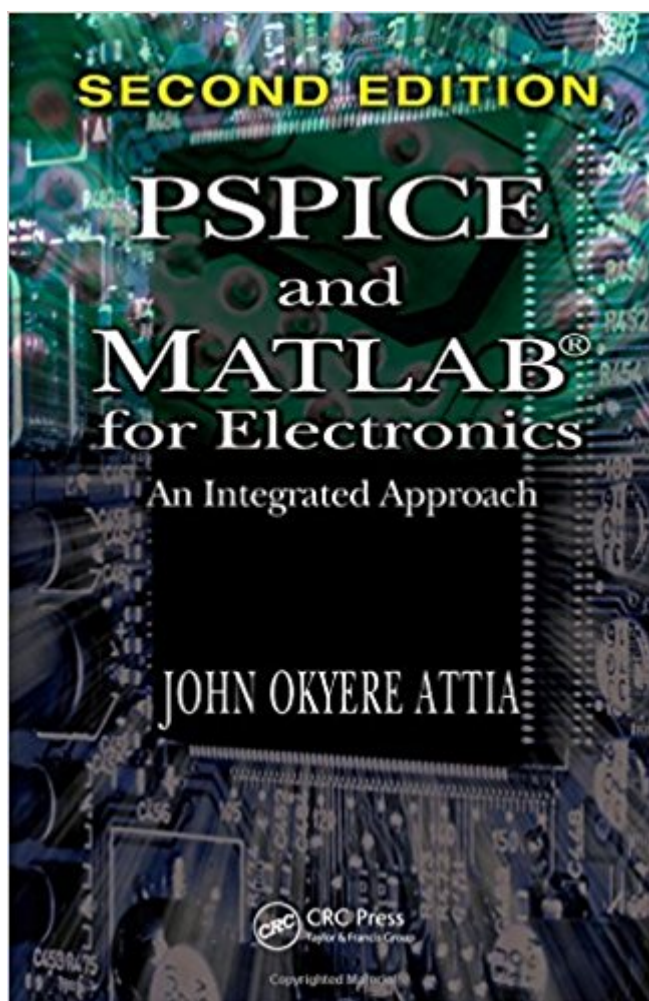


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# PSPICE And MATLAB For Electronics: An Integrated Approach, Second Edition (VLSI Circuits)



## Synopsis

Used collectively, PSPICE and MATLAB<sup>®</sup> are unsurpassed for circuit modeling and data analysis. PSPICE can perform DC, AC, transient, Fourier, temperature, and Monte Carlo analysis of electronic circuits with device models and subsystem subcircuits. MATLAB can then carry out calculations of device parameters, curve fitting, numerical integration, numerical differentiation, statistical analysis, and two- and three-dimensional plots. PSPICE and MATLAB<sup>®</sup> for Electronics: An Integrated Approach, Second Edition illustrates how to use the strong features of PSPICE and the powerful functions of MATLAB for electronic circuit analysis. After introducing the basic commands and advanced features of PSPICE as well as ORCAD schematics, the author discusses MATLAB fundamentals and functions. He then describes applications of PSPICE and MATLAB for problem solving. Applications covered include diodes, operational amplifiers, and transistor circuits. New to the Second Edition Updated MATLAB topics Schematic capture and text-based PSPICE netlists in several chapters New chapter on PSPICE simulation using the ORCAD schematic capture program New examples and problems, along with a revised bibliography in each chapter This second edition continues to provide an introduction to PSPICE and a simple, hands-on overview of MATLAB. It also demonstrates the combined power of PSPICE and MATLAB for solving electronics problems. The book encourages readers to explore the characteristics of semiconductor devices using PSPICE and MATLAB and apply the two software packages for analyzing electronic circuits and systems.

## Book Information

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Praise for the First Edition" | 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 with 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

John Okyere Attia is a professor and head of the electrical and computer engineering department at Prairie View A&M University.

I bought this book a year ago from .com. I noticed many mistakes in it while I computed the programs of all the examples given in this book chapter after chapter, some of them contains errors and therefore can not be executed.I was able to correct them to make them work. Also,the contain of some sections of the book are continued and mixed up with the next section which confuses the reader.The book is not really for beginners, because the author didn't explain how to program in PSPICE & MATLAB and how to use the software? the context of the book is not detailed.I suggest to the Author to review the book and make corrections and improvements.Finally, I give the book a two stars quote.

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