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This paper explains, in depth, how to create SPICE models for the most important and pervasive element in power electronics, that of the transformer and its accompanying saturable core.

### **Article Title: SPICE Models For Power Electronics**

SPICE for Power Electronics and Electric Power Third Edition Muhammad H. Rashid Life Fellow IEEE /<sup>^</sup>  
CRC Press Cf\*<sup>l</sup> | Tayloeis Grou r & Francip s Crou

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He has also authored five IEEE self-study guides, Self-Study Guide on Fundamentals of Power Electronics, Power Electronics Laboratory Using PSpice, Selected Readings on SPICE Simulation of Power Electronics, and Selected Readings on Power Electronics (IEEE Press, 1996) and Microelectronics Laboratory Using Electronics Workbench (IEEE Press, 2000).

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power versatile electronics circuits, use the PSpice simulator to verify the design, and make necessary design modifications. ... SPICE For Power Electronics and Electric Power. Prentice - Hall, 1993, Chapter 14 - Applications. 3 Rashid, M.H, SPICE For Circuits and Electronics Using PSpice . Prentice - Hall, 2nd Edition,

## **Power Electronics Using PSpice**

PSpice Simulation of Power Electronics Circuits is the title of a book by Raymond S. Ramshaw and Derek C. Schuurman which is currently published by Springer (formerly by Chapman & Hall). The aim of this book is to provide instruction in the use of a computer program called PSpice that can simulate power electronic circuits.

## **PSpice Simulation of Power Electronics Circuits**

28 High Frequency Electronics SPICE Modeling A Power MOSFET SPICE Model with Built-In Model Generator By Andre Adrian Introduction The electronic circuit simulator SPICE has built-in MOSFET models.

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SPICE models of power MOSFETs may prove inadequate in applications such as lowdropout regulator designs. ... For the PDF version of this article, click here. ... IEEE Transactions on Power Electronics, Vol. 12, No. 1, January 1997.

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### **Rashid, Power Electronics: Circuits, Devices**

Power electronics can be a difficult course for students to understand and for professors to teach. Simplifying the process for both, SPICE for Power Electronics and Electric Power, Third Edition illustrates methods of integrating industry standard SPICE software for design verification and as a theoretical laboratory bench.

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