



SPICE for Power Electronics and Electric Power, Second Edition (Electrical and Computer Engineering)

Muhammad H. Rashid, Hasan M. Rashid

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To be accredited, a power electronics course should cover a significant amount of design content and include extensive use of computer-aided analysis with simulation tools such as SPICE. Based upon the authors' experience in designing such courses, *SPICE for Power Electronics and Electric Power, Second Edition* integrates a SPICE simulator with a power electronics course at a junior or senior level. This textbook assumes no prior knowledge of SPICE and introduces the applications of various SPICE commands through numerous examples of power electronic circuits.

The authors emphasize the techniques for power conversions and for quality output waveforms, rather than accurate modeling of power semiconductor devices. This textbook enables students to compare the results with those that are obtained in a classroom environment via simple switch models or devices.

Not only a supplement to any standard textbook on power electronics and power systems, this volume can also be used as a textbook on SPICE. It suggests laboratory experiments and design problems, and presents complete laboratory guidelines for each experiment. This text can also be used as a laboratory manual for power electronics, with its design problems serving as assignments for a design-oriented simulation laboratory.

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