Semiconductor Device Modeling with Spice

Paolo Antognetti, Giuseppe Massobrio

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SPICE (Software Program with Integrated Circuit Emphasis) is a powerful design aid that electronics engineers learn and is the world standard for circuit simulation. And when circuit designers are using the various versions of SPICE to simulate circuits prior to fabrication and accurately predict future performance, this guide could be a useful reference. This revised version explains the ins and outs of SPICE, plus gives new data on modelling advanced devices such as MESFETs, ISFETs, and thyristors. The book should help readers gain maximum value from SPICE, also covering both MOS and FET models. Step by step, it takes the reader through the modelling process, providing complete information on a variety of semiconductor devices for designing specific circuit applications. These include: Pn junction and Schottky diodes; bipolar junction transistor (BJT); junction field effect transistor (JFET); metal oxide semiconductor field effect transistor (MESFET); ion sensitive field effect transistor (ISFET); and semiconductor controlled rectifier (SCR-thyristor). Given the immense and growing acceptance of SPICE, this revision should appeal to the audience of engineers, technicians, and students who use this design program.

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