



# Introduction to Device Modeling and Circuit Simulation

*By Tor A. Fjeldly, Trond Ytterdal, Michael S. Shur*



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### **Editorial Review**

From the Publisher

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From the Back Cover

A detailed guide to SPICE-oriented design and testing of electronic devices SPICE allows engineers to simulate individual semiconductor devices and electronic circuits and to perform the large number of different analyses needed for tasks such as verification of circuit designs and prediction of circuit performance. However, these simulations are only as good as the device models and parameters used in the simulations. Wrong models yield unreliable results. Introduction to Device Modeling and Circuit Simulation links electronic device modeling to simulation of these devices using the SPICE program. Ideal as a reference for professional engineers or as a text for courses in semiconductor device modeling, it presents

- \* A combination of background device physics and technology
- \* A review of existing device models
- \* A set of new and improved models compatible with the most advanced technology
- \* Descriptions of device models and examples of circuit simulations

Following an introduction to SPICE, this book covers charge transport in semiconductors, two-terminal devices, bipolar junction transistors, field effect transistors, and advanced FET modeling. With its concentration on modeling and simulation, Introduction to Device Modeling and Circuit Simulation is the core book on SPICE-oriented semiconductor device modeling.

### **Users Review**

**From reader reviews:**

**Bobbie Wallace:**

The particular book Introduction to Device Modeling and Circuit Simulation will bring you to the new experience of reading the book. The author style to clarify the idea is very unique. When you try to find new book you just read, this book very ideal to you. The book Introduction to Device Modeling and Circuit Simulation is much recommended to you to see. You can also get the e-book from official web site, so you can quicker to read the book.

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