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Bipolar Transistor and MOSFET Device Models

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About the eBook

Bipolar transistor and MOSFET device models is a textbook that describes basic functions and characterization models of these two types of transistors. Chapters in this text cover the fundamentals of semiconductor devices, the pn junction, high and low injection region models for bipolar transistors, and different MOSFET models such as channel doping models and gated SOI models.

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- Acknowledgement
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- The Short Channel MOSFET Model
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- Parasitic Limitations of MOSFETs: Gate Fringe Capacitance, Silicided Source/Drain Resistance, and Threshold Voltage Shift Due to Impurity Penetration through a Thin Gate Oxide

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