

MODELING BIPOLAR POWER SEMICONDUCTOR DEVICES%0A

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i MODELING OF POWER SEMICONDUCTOR DEVICES Tanya Kirilova Gachovska, Ph. D University of Nebraska, 2012 Adviser: Jerry L. Hudgins One of the requirements for choosing a proper power electronic device for a

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This paper presents a hybrid approach for accurate modelling and simulation of power bipolar semiconductor devices. Model's core is a numerical module that solves ambipolar diffusion equation (ADE) trough a variational formulation followed by an approximate solution with a finite element approach.

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This book presents physics-based models of bipolar power semiconductor devices and their implementation in MATLAB and Simulink. The devices are subdivided into different regions, and the operation in each region, along with the interactions at the interfaces which are analyzed using basic semiconductor physics equations that govern their behavior.

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[Modeling of Bipolar Power Semiconductor Devices](#)

Abstract A new modeling technique is developed to simplify fundamental semiconductor device physics. New power device models are designed to meet the need of the state-of-the-art design in power electronics.

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The physics and modeling of devices in integrated circuits is dominated by MOS and bipolar transistor modeling. However, other devices are important, such as memory devices, that have rather different modeling requirements.