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618 Modeling high-performance HBTs to set $x = 0.0$ for the purpose of estimating J_C in a graded-emitter HBT when using the microscopic model. For both graded and abrupt devices, the emitter, base and collector doping densities in cm^{-3} are, respectively, 5×10^{17} , 1×10^{19} and 5×10^{16} .

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COMPACT MODELING OF SiGe HBTs USING VERILOG-A

A Large Signal Model for High Power HBTs and BJTs I. Angelov, M. Ferndahl and F. Ingvarson Microwave Electronics Laboratory, Chalmers University of Technology, S-41296 G4teborg, Sweden.

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The Impact of Base Current or Voltage Biasing On

6 Introduction to Bipolar Transistor Modeling 169 Fig. 6.1 Cross-section of a basic bipolar transistor Fig. 6.2 Idealized doping profile of a vertical npn transistor (along dashed line of Fig. 6.1) initial model development. The profile shown in Fig. 6.2 is along the vertical dashed line in Fig. 6.1.

Chapter 6 Introduction to Bipolar Transistor Modeling

transistor model $\hat{\epsilon}^{\text{TM}}$ $\hat{\epsilon}^{\text{TM}}$) and its capabilities to meet SiGe HBT circuit design challenges. The Mextram has been introduced by De Graaff and Kloosterman at Royal Philips Electronics in 1985 [2].

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