



Heterojunction Bipolar Transistors for Circuit Design: Microwave Modeling and Parameter Extraction

Jianjun Gao

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A highly comprehensive summary on circuit related modeling techniques and parameter extraction methods for heterojunction bipolar transistors

- Heterojunction Bipolar Transistor (HBT) is one of the most important devices for microwave applications. The book details the accurate device modeling for HBTs and high level IC design using HBTs
- Provides a valuable reference to basic modeling issues and specific semiconductor device models encountered in circuit simulators, with a thorough reference list at the end of each chapter for onward learning
- Offers an overview on modeling techniques and parameter extraction methods for heterojunction bipolar transistors focusing on circuit simulation and design
- Presents electrical/RF engineering-related theory and tools and include equivalent circuits and their matrix descriptions, noise, small and large signal analysis methods

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