



## Heterojunction Bipolar Transistors for Circuit Design: Microwave Modelling and Parameter Extraction (Hardback)

By Jianjun Gao

John Wiley Sons (Asia) Pte Ltd, Singapore, 2015. Hardback. Condition: New. Language: English . Brand New Book. 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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