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

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heterojunction bipolar transistors
Heterojunction Bipolar Transistor
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modeling for HBTs and high level IC
design using HBTs Provides a
valuable reference to basic modeling

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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

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simulation and design Presents
electrical/RF engineering-related
theory and tools and include
equivalent circuits and their matrix
descriptions, noise, small and large
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without wiring the circuit by simulating through MATLAB code □ Compares distributed theory with network theory □ Includes microwave components, filters and amplifiers S. Raghavan was a Senior Professor (HAG) in the Department of Electronics and Communication Engineering, National

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Institute of Technology (NIT), Trichy, India and has 39 years of teaching and research experience at the Institute.

His interests include: microwave integrated circuits, RF MEMS, Bio MEMS, metamaterial, frequency selective surfaces (FSS), substrate integrated waveguides (SIW),

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biomedical engineering and microwave engineering. He has established state-of-the-art MICs and microwave research laboratories at NIT, Trichy with funding from the Indian government. He is a Fellow/Senior Member in more than 24 professional societies including: IEEE

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(MTT, EMBS, APS), IETE, IEI, CSI, TSI, ISSS, ILA and ISOI. He is twice a recipient of the Best Teacher Award, and has received the Life Time Achievement Award, Distinguished Professor of Microwave Integrated Circuit Award and Best Researcher Award.

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Matthew M. Radmanesh, Ph.D., is currently a faculty member in the Electrical and Computer Engineering (ECE) department at California State University, Northridge, CA. Dr. Radmanesh is a member of Tau Beta Pi and Eta Kappa Nu Honor societies, and holds two patents for his

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solutions obtained by using the two software tools agree with each other. For representative examples of impedance matching and filter design, the solution using MATLAB and Smith chart (Smith V4.1) are

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with PowerPoint slides and other illustrative examples Dr Houman Zarrinkoub has served as a development manager and now as a senior product manager with MathWorks, based

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in Massachusetts, USA. Within his 12 years at MathWorks, he has been responsible for multiple signal processing and communications software tools. Prior to MathWorks, he was a research scientist in the

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Wireless Group at Nortel Networks, where he contributed to multiple standardization projects for 3G mobile technologies. He has been awarded multiple patents on topics related to

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*computersimulations. He holds
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completed circuits; and tables of design formulae.

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Fundamentals of Microwave and RF Design "is derived from a

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*multi volume book series with an emphasis in this Fundamentals book being on presenting material, the fundamentals, required to cross the threshold to RF and microwave design." --
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The book introduces concepts on a wide range of materials and has several advantages over existing texts, including: 1. The presentation of a series of scientific postulates and laws of RF and microwaves, which lay

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the foundation for the behavior of waves and their propagation on transmission lines, is unique to this book compared with similar RF and Microwave texts. 2. The presentation of classical laws and principles of electricity and

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magnetism, all inter-related, conceptually and graphically. 3. There is a shift of emphasis from rigorous mathematical solutions of Maxwell's equations, and instead has been aptly placed on simple yet fundamental concepts

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that underlie these equations.

*This shift of emphasis will
promote a deeper understanding
of the electronics, particularly at
RF/Microwave frequencies. 4.*

*Wave propagation in free space
and transmission lines has been*

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amply treated from a totally new standpoint. Designing RF/Microwave passive circuits using the Smith Chart as covered in this book becomes a systematic and yet pleasant task, which can easily be duplicated

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by any practitioner in the field. 5. New technical terms are precisely defined as they are first introduced, thereby keeping the subject matter in focus and preventing misunderstanding, and 6. Finally the abundant use

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initially placed on a firm
ground by James Clerk
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