



Microwave and RF Engineering- A Simulation Approach with Keysight Genesys Software (Hardback)

By Ali A Behagi

Techno Search, 2015. Hardback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Microwave Engineering is a vast subject with topics ranging from semiconductor physics to electromagnetic theory. The book covers the microwave and RF engineering topics from an Electronic Design Automation (EDA) approach. The topics includes RF and microwave concepts and components, transmission lines, network parameters, maximum power transfer requirements, lumped and distributed impedance matching, and several linear amplifier designs. Almost all subject matters covered in the book are accompanied by examples that are solved using the latest version of Keysight Genesys software. University students and practicing engineers will find this book both as a potent learning tool and as a reference guide to quickly setup designs using the Genesys software. The authors thoroughly cover the basics as well as introducing CAD techniques that may not be familiar to some engineers. This includes subjects such as the frequent use of the MATLAB and Visual Basic scripting capability. There are other topics that are not usually covered in classical textbooks such as the techniques to evaluate the Q factor of one port resonators and yield analysis of microwave circuits.

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