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The microwave signal and noise matrix analysis techniques are the basis of representation of the microwave network, and are the important tools of the radio frequency (RF) and microwave semiconductor modeling and parameter extraction. RF and microwave device, circuit and components can be classified as one-, two-, three-, and N-port networks.

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for the simulation of high-power RF and microwave transistors, in which electromagnetic, thermal, and nonlinear transistor models are linked together within a harmonic-balance circuit simulator. This approach is used to analyze a laterally diffused metal-oxide semiconductor (LDMOS) transistor that has a total

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RF and Microwave Circuits, Measurements, and Modeling (The RF and Microwave Handbook, Second Edition) eBook: Golio, Mike, Golio, Janet: Amazon.co.uk: Kindle Store

RF and Microwave Circuits, Measurements, and Modeling (The ...

Modeling and Simulation of RF and Microwave Systems. By: John Wood. Abstract: This application note describes system-level characterization and modeling techniques for radio frequency (RF) and microwave subsystem components. It illustrates their use in a mixed-signal, mixed-mode system-level simulation.

Modeling and Simulation of RF and Microwa - Maxim Integrated

Highlighting the challenges RF and microwave circuit designers face in their day-to-day tasks, RF and Microwave Circuits, Measurements, and Modeling explores RF and microwave circuit designs in terms of performance and critical design specifications. The book discusses transmitters and receivers first in terms of functional circuit block and then examines each block individually.

RF and Microwave Circuits, Measurements, and Modeling (The ...

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T/R module behavior as a function of RF frequency, temperature, RF power input, commanded phase shift, commanded gain setting, and over a population of modules can be easily modeled using additive ...

T.R. Turlington's research works

Aaen, Peter H, Zhang, L and Kim, K (2016) Characterization and Modeling of Frequency Dispersion in RF LDMOS Transistors In: European Microwave Week 2016 (EuMW 2016), 2016-10-03 - 2016-10-07, London. Abd Rahni, AA , Lewis, E , Guy, MJ , Goswami, B and Wells, K (2011) A particle filter approach to respiratory motion estimation in nuclear medicine imaging IEEE Transactions on Nuclear Science, 58 ...

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