

Abstracts

Small Signal Analysis of Active Circuits Using FDTD Algorithm

C.-N. Kuo, V.A. Thomas, S.T. Chew, B. Houshmand and T. Itoh. "Small Signal Analysis of Active Circuits Using FDTD Algorithm." 1995 Microwave and Guided Wave Letters 5.7 (Jul. 1995 [MGWL]): 216-218.

The FDTD method is extended to analyze a microwave amplifier. This amplifier includes matching circuits, DC bias circuits, and an active device. Equivalent current sources are used to model the active element. With the small signal model of the active element, the FDTD full-wave simulations show good agreement with measured results.

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