Abstracts

A Simplified Large-Signal Simulation of a Lumped Element TEO Based on a Phase Plane Technique (Short Papers)

A. McCowen and M.J. Howes. "A Simplified Large-Signal Simulation of a Lumped Element TEO Based on a Phase Plane Technique (Short Papers)." 1987 Transactions on Microwave Theory and Techniques 35.1 (Jan. 1987 [T-MTT]): 63-66.

The transferred electron device (TED) lumped circuit interaction is modeled by a phase plane technique. The results from this large-signal simulation are compared to those from a time-domain simulation based on the electron transport equations and are shown to be in good agreement. Results from the simulations are used as the design specifications for a J-band MIC TEO with excellent results indicating the potential of this CAD technique.

❑ Return to main document.