

Abstracts

Wave Propagation in a Double-Sided Exponentially Tapered Rectangular Waveguide (Short Papers)

S.O. Ajose and C.N. Ndujiuba. "Wave Propagation in a Double-Sided Exponentially Tapered Rectangular Waveguide (Short Papers)." 1990 *Transactions on Microwave Theory and Techniques* 38.9 (Sep. 1990 [T-MTT] (Special Issue on Multifunction MMIC's and their System Applications)): 1362-1365.

Electromagnetic wave propagation in a rectangular waveguide for which both sides are exponentially tapered is discussed. The wave equation in the guide is a second-order nonlinear partial differential equation which is solved numerically using the finite element approach. The results obtained for large taper coefficients are useful in the design of miniaturized waveguide/microstrip transitions constituting the input and output sections of test jigs employed in solid-state circuits mounted in waveguide environments.

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