

# Abstracts

## Transient Analysis of Tapered Lines Based on the Method of Series Expansion (Short Papers)

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*Y.P. Tang and S.Y. Tang. "Transient Analysis of Tapered Lines Based on the Method of Series Expansion (Short Papers)." 1996 Transactions on Microwave Theory and Techniques 44.10 (Oct. 1996, Part I [T-MTT]): 1742-1744.*

Step response of tapered lines under matched conditions is studied in detail by a novel method of series expansion. We use the concept of fall time to characterize the transient characteristics and, by using approximate formulas concerned with Gaussian pulse, response characteristics are derived which may be a guide in practical applications of tapered line. The effectiveness of the formulas is verified by numerical calculations.

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