

Abstracts

Transient Responses of an Exponential Transmission Line and its Applications to High-Speed Backdriving in In-Circuit Test

C.-W. Hsue and C.D. Hechtman. "Transient Responses of an Exponential Transmission Line and its Applications to High-Speed Backdriving in In-Circuit Test." 1994 Transactions on Microwave Theory and Techniques 42.3 (Mar. 1994 [T-MTT]): 458-462.

Step responses of an exponential line terminated with resistive loads are evaluated by means of time-domain scattering parameters. The results are used to illustrate the interaction between a nonuniform line and a nonlinear load. We find that an exponential line could be used to compensate the nonlinear load effects in high-speed backdriving.

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