

Modified Time-Domain-Scattering-Parameter Formulation for Incident and Reflected Waves on Lossless, Nonuniform Transmission Lines

C.-W. Hsue. "Modified Time-Domain-Scattering-Parameter Formulation for Incident and Reflected Waves on Lossless, Nonuniform Transmission Lines." 1994 *Microwave and Guided Wave Letters* 4.6 (Jun. 1994 [MGWL]): 189-190.

A DC steady state voltage is decomposed into two waves traveling in opposite directions of a lossless, nonuniform transmission line. Such a two-traveling-wave representation for a DC charged line is employed to modify the time-domain-scattering parameter formulation of a lossless, nonuniform transmission line having nonzero initial condition as well as nonlinear terminations.

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