

Abstracts

Time Domain Scattering Parameters of an Exponential Transmission Line (Short Papers)

C.-W. Hsue. "Time Domain Scattering Parameters of an Exponential Transmission Line (Short Papers)." 1991 *Transactions on Microwave Theory and Techniques* 39.11 (Nov. 1991 [T-MTT]): 1891-1895.

The scattering parameters of an exponential line are studied in detail both in frequency and time domains. By taking the causality condition into consideration, we cast the time domain scattering parameters in a rapid-convergence power series. Each term of the power series represents a signal component generated by the exponential line when the signal travels a round trip.

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