Abstracts

A DC Voltage is Equivalent to Two Traveling Waves on a Lossless, Nonuniform Transmission Line

C.-W. Hsue. "A DC Voltage is Equivalent to Two Traveling Waves on a Lossless, Nonuniform Transmission Line." 1993 Microwave and Guided Wave Letters 3.3 (Mar. 1993 [MGWL]): 82-84.

A static dc voltage can be treated as two traveling waves propagating in opposite directions of a Iossless, nonuniform transmission line. The amplitudes of these two traveling waves are a function of the characteristic impedance of signal line. The concept of two traveling waves is applied to a time-domain-scattering-parameters analysis in a lossless, nonuniform transmission line terminated with nonlinear loads.

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