

Reconstruction of nonuniform transmission lines from time-domain reflectometry

Ching-Wen Hsue and Te-Wen Pan. "Reconstruction of nonuniform transmission lines from time-domain reflectometry." 1997 Transactions on Microwave Theory and Techniques 45.1 (Jan. 1997 [T-MTT]): 32-38.

A novel technique is developed to reconstruct the physical structures of a nonuniform transmission line from its time-domain or frequency-domain reflection (scattering) coefficient. This technique takes the past history of reflection processes of nonuniform line into considerations, and its accuracy exceeds that of a conventional time-domain reflectometry (TDR) technique. Experimental results are presented to illustrate the validity of this reconstruction technique.

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