

Abstracts

Spectral Estimation for the Transmission Line Matrix Method (Short Papers)

J.D. Wills. "Spectral Estimation for the Transmission Line Matrix Method (Short Papers)." 1990 Transactions on Microwave Theory and Techniques 38.4 (Apr. 1990 [T-MTT]): 448-451.

Spectral estimation for the transmission line matrix (TLM) method by use of the discrete Fourier transform and fast Fourier transform is reviewed. Error bounds are given and checked by means of a numerical example. A new spectral estimation method based on Prony's method is presented for use with TLM. A numerical example shows that the new method allows an order of magnitude reduction in the number of iterations in the TLM method for equal accuracy.

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