

Abstracts

Transient Analysis of Systems with Exponential Transmission Lines

J.L. Hill and D. Mathews. "Transient Analysis of Systems with Exponential Transmission Lines." 1977 Transactions on Microwave Theory and Techniques 25.9 (Sep. 1977 [T-MTT]): 777-783.

Two computer solutions are given for pulse propagation along exponentially tapered transmission lines with arbitrary nonlinear sending and receiving networks. The solutions allow series and shunt loss terms per unit of length of the line. The method of characteristics is shown to be computationally superior to the cubic spline method in terms of accuracy and efficiency.

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