

Abstracts

Step Response of Lossless Nonuniform Transmission Lines with Power-Law Characteristic Impedance Function (Short Papers)

H. Curtins and A.V. Shah. "Step Response of Lossless Nonuniform Transmission Lines with Power-Law Characteristic Impedance Function (Short Papers)." 1985 Transactions on Microwave Theory and Techniques 33.11 (Nov. 1985 [T-MTT]): 1210-1212.

The step-response waveform of the lossless nonuniform transmission line possessing a characteristic impedance function $Z_{c(x)} = Z_0 / (1 + \eta x)^{2n}$, $n = 0, 1, 2, \dots$, is deduced. The simple and closed-form solutions should be useful for pulse transient analysis involving nonuniform transmission lines.

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