

# Abstracts

## Generalized quasi-TEM approximation and telegrapher equations for nonreciprocal ferrite-loaded transmission lines

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*R. Marques, F. Mesa and F. Medina. "Generalized quasi-TEM approximation and telegrapher equations for nonreciprocal ferrite-loaded transmission lines." 2000 Microwave and Guided Wave Letters 10.6 (Jun. 2000 [MGWL]): 225-227.*

This letter proposes a generalization of both the quasi-TEM approximation and the telegrapher equations suitable for the analysis of nonreciprocal ferrite-loaded transmission lines with arbitrarily oriented magnetization, including nonbidirectional structures. The nonreciprocal behavior of the propagation constant of the line is modeled by introducing a new line parameter that will be called characteristic memductance of the line.

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