

The Incremental Inductance Rule in Quasi-TEM Coupled Transmission Lines

G.G. Gentili and A. Melloni. "The Incremental Inductance Rule in Quasi-TEM Coupled Transmission Lines." 1995 Transactions on Microwave Theory and Techniques 43.6 (Jun. 1995 [T-MTT]): 1276-1280.

The application of the incremental inductance rule is described for the computation of losses in quasi-TEM coupled transmission lines. It is shown that the well-known formula valid for the single-line case can be extended to the case of normal modes traveling in general coupled structures providing one uses the power-current modal characteristic impedance definition. Numerical results are shown for several coupled lines systems.

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