Abstracts

Inductance of Nonstraight Conductors Close to a Ground Return Plane (Short Papers)

A.E. Ruehli, N. Kulasza and J. Pivnichny. "Inductance of Nonstraight Conductors Close to a Ground Return Plane (Short Papers)." 1975 Transactions on Microwave Theory and Techniques 23.8 (Aug. 1975 [T-MTT]): 706-708.

Measurement and calculation of the inductance of a nonstraight conductor close to ground return plane are considered. An equivalent circuit model solution is given, and the results are compared to measurements for a corner-type geometry. Much larger changes in inductance as a function of frequency have been observed for the corner-type geometry than for the equivalent straight-conductor geometry. The circuit model can be used to predict the inductance for other configurations.

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