Abstracts

A New Wire Node for Modeling Thin Wires in Electromagnetic Field Problems Solved by Transmission Line Modeling (Short Papers)

P. Naylor and C. Christopoulos. "A New Wire Node for Modeling Thin Wires in Electromagnetic Field Problems Solved by Transmission Line Modeling (Short Papers)." 1990 Transactions on Microwave Theory and Techniques 38.3 (Mar. 1990 [T-MTT]): 328-330.

A new three-dimensional wire node for the numerical solution of electromagnetic field problems by transmission line modeling has been developed. The wire node can represent thin wires in a coarse mesh, thus substantially increasing computational efficiency. The scattering matrix for the node is given, together with a simulation result and comparisons with another method.

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