Abstracts

Accurate Frequency Domain Modelling of Coaxially Driven Axisymmetric Microwave Structures

H.O. Ali and G.I. Costache. "Accurate Frequency Domain Modelling of Coaxially Driven Axisymmetric Microwave Structures." 1994 Microwave and Guided Wave Letters 4.12 (Dec. 1994 [MGWL]): 390-392.

This letter presents a simple, yet accurate, finite-element frequency domain method of analysis applicable to coaxially driven, axisymmetric microwave structures. The method combines known techniques of modelling coaxially driven, non-radiating structures with those used to model radiating, non-coaxially driven microwave structures. As a result, the method is capable of modelling both types of structures. As an example of the various possible applications of the method, a monopole antenna realized with a ring resonator was analyzed and the results are reported. The results agree very well with the reported measured results for that antenna.

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