Abstracts

On the Eigenfunction Expansion of Electromagnetic Dyadic Green's Functions in Rectangular Cavities and Waveguides (Short Papers)

L.W. Li, P.S. Kooi, M.S. Leong, T.S. Yeo and S.L. Ho. "On the Eigenfunction Expansion of Electromagnetic Dyadic Green's Functions in Rectangular Cavities and Waveguides (Short Papers)." 1995 Transactions on Microwave Theory and Techniques 43.3 (Mar. 1995 [T-MTT]): 700-702.

The electric dyadic Green's functions of both the first and the second kinds due to the presence of electric and equivalent magnetic sources in rectangular cavities are obtained. A method for directly reducing the dyadic Green's functions for a rectangular cavity to those for a semi-infinite and an infinite rectangular waveguides is presented. The Green dyads of the second kind for an infinite and a semi-infinite rectangular waveguides, and a rectangular cavity are obtained.

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