Abstracts

The Eigenfunction Expansion of Dyadic Green's Functions for Chirowaveguides

H.-T. Hui and E.K.N. Yung. "The Eigenfunction Expansion of Dyadic Green's Functions for Chirowaveguides." 1996 Transactions on Microwave Theory and Techniques 44.9 (Sep. 1996 [T-MTT]): 1575-1583.

A general method of formulating eigenfunction expansion of dyadic Green's functions in lossless, reciprocal and homogeneous chirowaveguides is presented. Bohren's decomposition of the electromagnetic field is used to obtain the vector wavefunctions. The method of G/sub m/ is used to rigorously derive the magnetic and electric dyadic Green's functions. A specific application to the cylindrical chirowaveguide illustrates the method.

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