Abstracts

Electromagnetic Modeling of Finite Grid Structures in Quasi-Optical Systems

T.W. Nuteson, M.B. Steer, K. Naishadham, J.W. Mink and J. Harvey. "Electromagnetic Modeling of Finite Grid Structures in Quasi-Optical Systems." 1996 MTT-S International Microwave Symposium Digest 96.3 (1996 Vol. III [MWSYM]): 1251-1254.

A full-wave moment method technique developed for the analysis of quasi-optical systems is used to model finite grid structures. This technique incorporates an electric field dyadic Green's function for a grid centered between two lenses in free space which is derived by separately considering paraxial and non-paraxial fields. Results for the driving point reflection coefficient of a 3 x 3 grid are computed and compared with measurements.

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