Abstracts

Analysis of finite grid structures with lenses in quasi-optical systems

T.W. Nuteson, Huan-Sheng Hwang, M.B. Steer, K. Naishadham, J. Harvey and J.W. Mink. "Analysis of finite grid structures with lenses in quasi-optical systems." 1997 Transactions on Microwave Theory and Techniques 45.5 (May 1997, Part I [T-MTT]): 666-672.

A full-wave moment-method technique developed for the analysts of quasi-optical (QO) systems is used to model finite grid structures in a lens system. This technique incorporates an electric-field dyadic Green's function for a grid centered between two lenses. This is derived by separately considering paraxial and nonparaxial fields. Results for the driving point reflection coefficient of a 3/spl times/3 and 5/spl times/5 grid in the lens system are computed and compared with measurements.

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