

Abstracts

Scattering from a Circular Dielectric Post Embedded in a Grounded Dielectric Sheet Waveguide (Short Papers)

E. Sawado, K. Ishibashi and K. Hatakeyama. "Scattering from a Circular Dielectric Post Embedded in a Grounded Dielectric Sheet Waveguide (Short Papers)." 1995 Transactions on Microwave Theory and Techniques 43.10 (Oct. 1995 [T-MTT]): 2514-2516.

A systematic method for obtaining the scattered electric field in a grounded dielectric sheet waveguide is presented. It is shown that point-matching method can be used for an explicit calculation of the integral equation to estimate the scattering from a circular dielectric post embedded in the grounded sheet. Magnitude of the reflection coefficient as a function of dielectric constant is given.

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