

Abstracts

A Completely Theoretical Design Method of Dielectric Image Guide Gratings in the Bragg Reflection Region

H. Shigesawa and M. Tsuji. "A Completely Theoretical Design Method of Dielectric Image Guide Gratings in the Bragg Reflection Region." 1986 Transactions on Microwave Theory and Techniques 34.4 (Apr. 1986 [T-MTT]): 420-426.

This paper presents a new and completely theoretical accurate method for the design of dielectric image guide gratings. Our method is based on a network approach that can easily analyze, with satisfactory approximations, the interaction of dielectric step discontinuities. These are the fundamental constituents of our gratings. Measurements on a filter modeled at X-band show excellent agreement with the design characteristics.

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