

Abstracts

Mode Conversion Effects in Bragg Reflection from Periodic Grooves in Rectangular Dielectric Image Guide

M.J. Shiau, H. Shigesawa, S.T. Peng and A.A. Oliner. "Mode Conversion Effects in Bragg Reflection from Periodic Grooves in Rectangular Dielectric Image Guide." 1981 MTT-S International Microwave Symposium Digest 81.1 (1981 [MWSYM]): 14-16.

Periodic gratings on rectangular dielectric image guide operating in their first stop bands [Bragg reflection) have been proposed as millimeter-wave filter components which produce strong reflections with negligible radiation. We show that mode conversion effects occur which produce additional stop bands that may affect device performance.

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