

Scattering of Surface Waves by Metallic Obstacles on the Dielectric-Image Line

S.F. Mahmoud and J.C. Beal. "Scattering of Surface Waves by Metallic Obstacles on the Dielectric-Image Line." 1975 Transactions on Microwave Theory and Techniques 23.2 (Feb. 1975 [T-MTT]): 185-192.

A theoretical treatment of scattering of electromagnetic surface waves from thin metallic obstacles of a semiannular shape on the dielectric-image line is presented. The method of treatment relies heavily on the expansion of the total fields of the line in terms of its complete set of discrete and continuous modes which in turn is fully derived.

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