

Abstracts

Attenuation Due to Ohmic Losses in Periodic Dipole and Slot Arrays

N. Amitay and H. Zucker. "Attenuation Due to Ohmic Losses in Periodic Dipole and Slot Arrays." 1972 Transactions on Microwave Theory and Techniques 20.2 (Feb. 1972 [T-MTT]): 148-155.

The analysis of the attenuation due to ohmic losses in periodic linear arrays of metallic cylinders, ribbons, and slots in a metallic ground plane is presented. Calculations indicate that the loss per unit length of the ribbon and cylinder arrays is comparable to that of a standard rectangular waveguide operated in the TE/sub 10/ mode. With a proper choice of parameters, the loss per unit length of the slot array can be brought to within a factor of 2 of that of rectangular waveguides.

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