Abstracts

Experiments of a Discrete Reflecting Beam Waveguide with Parabolic Cylindrical Reflectors

M. Kamimura, M. Watanabe, K. Mikoshiba and M. Suzuki. "Experiments of a Discrete Reflecting Beam Waveguide with Parabolic Cylindrical Reflectors." 1970 Transactions on Microwave Theory and Techniques 18.7 (Jul. 1970 [T-MTT]): 348-351.

The new beam waveguide with parabolic cylindrical reflectors, analyzed in another paper, has been constructed and experimentally investigated. The measurement of the attenuation is in fairly good agreement with the theoretical attenuation constant if surface roughness and installation error of the reflector are taken into account. By the fundamental experiment for train radar application, with various obstacles placed inside this beam waveguide, it is shown that the measured reflection from metallic obstacles is in good agreement with theoretical calculations.

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