

Abstracts

Conducting Spheres in Rectangular Waveguides

J.H. Hinken. "Conducting Spheres in Rectangular Waveguides." 1980 Transactions on Microwave Theory and Techniques 28.7 (Jul. 1980 [T-MTT]): 711-714.

A conducting sphere on the center of the broad wall of a rectangular waveguide causes frequency independent reflections for a wide range of frequencies. This empirically found behavior is confirmed analytically here by perturbational calculations. Furthermore experimental and analytical results are given for a sphere located in the middle of the waveguide cross section.

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