

Abstracts

Excitation of an Enclosed Lossy Cylinder by an Aperture Source (Short Papers)

J.R. Wait. "Excitation of an Enclosed Lossy Cylinder by an Aperture Source (Short Papers)." 1987 Transactions on Microwave Theory and Techniques 35.2 (Feb. 1987 [T-MTT]): 210-212.

We present a formulation for an aperture-excited cylindrical structure of circular cross section and of finite length. The solution method is straightforward but it is sufficiently general to permit quantitative estimates of the internal heating. When the axial dependency of the fields is ignored, the solution reduces to one employed earlier in confection with hyperthermic heating of human torsos and limbs.

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