

Abstracts

Solution of the Fourier Heat Flow Equation in Waveguides Filled with Lossy Dielectrics (Correspondence)

W.J. Gallagher. "Solution of the Fourier Heat Flow Equation in Waveguides Filled with Lossy Dielectrics (Correspondence)." 1963 Transactions on Microwave Theory and Techniques 11.6 (Nov. 1963 [T-MTT]): 552-553.

The temperature distribution within a waveguide filled with a lossy dielectric, and propagating a specified mode, may be conveniently obtained by the Green's function method. Such a solution is useful for describing the temperature distribution in vacuum windows, for example.

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