

Abstracts

Low-Frequency Location of the Leaky-Wave Poles for a Dielectric Layer (Short Papers)

M. Guglielmi and D.R. Jackson. "Low-Frequency Location of the Leaky-Wave Poles for a Dielectric Layer (Short Papers)." 1990 Transactions on Microwave Theory and Techniques 38.11 (Nov. 1990 [T-MTT]): 1743-1746.

Explicit asymptotic solutions of the characteristic equations are derived for the propagation constants of TM and TE modes in the leaky-wave range for a dielectric layer with or without a metal ground-plane backing. The expressions derived for the phase and attenuation constants of the leaky waves become increasingly accurate as the frequency is lowered.

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