Abstracts

Slow-Wave Propagation in Two Types of Cylindrical Waveguides Loaded with a Semiconductor (Short Papers)

C.M. Krowne. "Slow-Wave Propagation in Two Types of Cylindrical Waveguides Loaded with a Semiconductor (Short Papers)." 1985 Transactions on Microwave Theory and Techniques 33.4 (Apr. 1985 [T-MTT]): 335-339.

For a parallel-plate waveguide and a microstripline loaded with a semiconductor slab of resistive (or active) character, the complex propagation constant gamma is determined. Gamma is found for higher order branches for microwave and millimeter-wave frequencies between 10 and 140 GHz, representing a study of phase velocity slowing (and attenuation).

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