

Abstracts

Surface-Wave-Like Mode in Slot Line

J.-W. Sheen and Y.D. Lin. "Surface-Wave-Like Mode in Slot Line." 1996 *Microwave and Guided Wave Letters* 6.7 (Jul. 1996 [MGWL]): 259-261.

Propagation properties of the surface-wave-like mode in slot line are investigated with the spectral domain analysis. This surface-wave-like mode is an odd dominant mode with a magnetic wall symmetric plane placed at the center of the slot. Its field distribution is similar to that of the TMO mode supported by the surrounding structure. It exists in the lower frequency regime and evolves into a nonphysical and nonspectral real mode in the higher frequency regime. Unlike other surface-wave-like modes in planar transmission line, the surface-wave-like mode in slot line does not evolve into a leaky mode.

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