

Space Wave Leakage from Higher Order Modes on Various Planar Transmission Line Structures

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The existence of space wave leakage from higher order modes on various planar transmission line structures is demonstrated by numerical results based on a rigorous mode-matching method. Transition characteristics between the bound-wave and leaky-wave regions of the higher order modes are illustrated and discussed for the first time. The leaky modes on the offset groove-guide structures and those on the planar transmission structures are compared.

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