Abstracts

Modal Transition Phenomena in Shielded Microstrip with Anisotropic Substrates

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Modal transitions involving the quasi-TEM mode and higher-order modes in shielded microstrip and suspended microstrip with anisotropic substrates are studied. For the class of anisotropy studied, at higher frequencies the largest eigenvalue may not correspond to the quasi-TEM mode. It is shown that the dispersion curves of the quasi-TEM and higher order modes do not intersect, but rather pass through a transition/coupling region and interchange mode types.

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