

Abstracts

Slots in Dielectric Image Line as Mode Launchers and Circuit Elements

K. Solbach. "Slots in Dielectric Image Line as Mode Launchers and Circuit Elements." 1981 Transactions on Microwave Theory and Techniques 29.1 (Jan. 1981 [T-MTT]): 10-16.

Slots in the ground plane of dielectric image lines are investigated using a planar resonator model. An equivalent circuit representation of the slot discontinuity is derived and the launching efficiency of the slot as a mode launcher is discussed. Slots are also demonstrated to be useful in the realization of dielectric image line array antennas.

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