

# Abstracts

## Higher Order Mode Coupling Effects in the Feeding Waveguide of a Planar Slot Array (Short Papers)

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S.R. Rengarajan. "Higher Order Mode Coupling Effects in the Feeding Waveguide of a Planar Slot Array (Short Papers)." 1991 *Transactions on Microwave Theory and Techniques* 39.7 (Jul. 1991 [T-MTT]): 1219-1223.

Method of moments solutions to pertinent coupled integral equations have been investigated for arrays of coupling slots of the centered-inclined and longitudinal-transverse types between a main waveguide and crossed branch waveguides. It has been demonstrated that, by including the TE<sub>20</sub> mode coupling in the analysis, most of the higher order mode effects can be accounted for in reduced height waveguides, whereas in waveguides of standard height there may be a small additional effect arising from the TE<sub>01</sub> mode coupling.

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