# Abstracts

## Dispersion characteristics of grooved microstrip line (GMSL)

*W. Chamma, N. Gupta and L. Shafai. "Dispersion characteristics of grooved microstrip line (GMSL)." 2000 Transactions on Microwave Theory and Techniques 48.4 (Apr. 2000, Part I [T-MTT]): 611-615.*

In this paper, the method of lines and finite-difference time-domain numerical methods are used to investigate the field distribution, dispersion, and impedance characteristics of the grooved microstrip line (GMSL) structure. It is found that the GMSL is less dispersive compared to conventional microstrip lines, and also provides a wide range of characteristic impedance values as a function of the groove width. Increasing the groove width of the microstrip structure can also reduce the dielectric and conductor losses of the GMSL.

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