

Abstracts

An Analysis of a Width-Modulated Microstrip Periodic Structure (Short Papers)

N.V. Nair and A.K. Mallick. "An Analysis of a Width-Modulated Microstrip Periodic Structure (Short Papers)." 1984 Transactions on Microwave Theory and Techniques 32.2 (Feb. 1984 [T-MTT]): 200-204.

The wave propagation along a microstripline with sinusoidally varying width has been investigated. The analysis employs the circuit theory of uniform microstriplines and their step junctions. The wave amplitude transmission (WAT) matrix has been successfully used to determine the propagation constant, characteristic impedance, and the input impedance of the terminated line. Samples have been fabricated for the experimental verification of the above-mentioned quantities. Theory and experiment show good agreement.

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