Abstracts

Parallel Line Microstrip Filters in an Inhomogeneous Medium

D. Pompei, O. Benevello and E. Rivier. "Parallel Line Microstrip Filters in an Inhomogeneous Medium." 1978 Transactions on Microwave Theory and Techniques 26.4 (Apr. 1978 [T-MTT]): 231-238.

Parallel coupled microstrip lines in an inhomogeneons medium are studied. The quasi-static capacitance is shown to be linear with regard to the dielectric constant epsilon/sub r/ simplifying the formalism used for analyzing microstrip filters. The electromagnetic advantages of the homogeneous medium carry over to the inhomogeneous medium. This result is obtained by equalizing all the velocities of the propagation modes.

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