Abstracts

Lagrangian Formulation of a Linear Microstrip Resonator: Theory and Experiment

The electromagnetic scattering properties of a linear microstrip resonator are formulated utilizing a Lagrangian approach. The resonator design includes a center microstrip separated from the source and output loads by dielectric gaps. The gaps of the resonator are represented by capacitively coupled pi-networks, whose capacitance values are fitted by experimental data. Calculated and measured reflection coefficients of linear microstrip resonators are compared and general agreements are found between theory and experiments.

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