

Abstracts

Analysis of Microstrip Resonators

*T. Itoh. "Analysis of Microstrip Resonators." 1974 *Transactions on Microwave Theory and Techniques* 22.11 (Nov. 1974 [T-MTT]): 946-952.*

An accurate and efficient method was developed for computing the resonant frequencies of microstrip resonators. The formulation of the problem was carried out rigorously using the full-wave analysis rather than the quasi-static approximation. The characteristic equation was derived using Galerkin's method applied in the Fourier transform domain. The accuracy of the method has been proven by comparing the numerical results with the experimental data. Numerical data have been provided for the microstrip resonators with different structural parameters. Finally, the results for microstrip resonators have been used for predicting the end effect at the open end of microstrip structures.

[Return to main document.](#)