

Abstracts

The Method of Lines for the Hybrid Analysis of Multilayered Dielectric Resonators

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In this paper the Method of Lines has been used in the hybrid analysis of dielectric resonators. The resonant frequencies, as well as Q-factors caused by radiation or dielectric loss and the corresponding field distributions, will be determined with the described algorithm based on the Method of Lines. For the five lowest order modes the resonant frequencies and the Q-factors due to radiation are presented for a dielectric resonator of the relative permittivity of 38. The results are compared with those of other rigorous numerical methods and with the newest measurement available in the literature.

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