

# Abstracts

## Computation of Cavity Resonances Using Edge-Based Finite Elements (Short Papers)

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A. Chatterjee, J.M. Jin and J.L. Volakis. "Computation of Cavity Resonances Using Edge-Based Finite Elements (Short Papers)." 1992 *Transactions on Microwave Theory and Techniques* 40.11 (Nov. 1992 [T-MTT]): 2106-2108.

In this paper, the eigenvalues of a cavity resonator are computed using edge-based finite elements, and it is shown that these elements offer significant improvements in accuracy, in addition to being suitable for modelling arbitrarily shaped inhomogeneous regions. A performance comparison between the edge-based tetrahedral and rectangular brick elements is also carried out.

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