Abstracts

Finite Elements for Microwave Device Simulation: Application to Microwave Dielectric Resonator Filter (Comments and Authors' Reply)

A. Abramowicz, S. Verdeyme and P. Guillon. "Finite Elements for Microwave Device Simulation: Application to Microwave Dielectric Resonator Filter (Comments and Authors' Reply)." 1993 Transactions on Microwave Theory and Techniques 41.4 (Apr. 1993 [T-MTT]): 737-738.

In the above paper, an application of the finite element method to the computation of scattering parameters of dielectric resonator structures is presented. Exiting possibilities of analyzihg the whole filter structure (including input and output structures) seems to be the main advantage of the finite element method over other analysis methods. But presented results indicate that the accuracy of computation is the main problem in the finite element method. Two section of the paper need close scrutiny.

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