Abstracts

A stable subgridding algorithm and its application to eigenvalue problems

K.M. Krishnaiah and C.J. Railton. "A stable subgridding algorithm and its application to eigenvalue problems." 1999 Transactions on Microwave Theory and Techniques 47.5 (May 1999 [T-MTT]): 620-628.

In this paper, a new and stable subgridding algorithm is proposed for three-dimensional problems which provides subgridding in both space and time. The concept of an equivalent-circuit representation and a novel leapfrog time integration scheme is used to ensure that the algorithm is stable and efficient. Practical applications of this algorithm in the characterization of arbitrarily filled dielectric resonators are reported.

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