

## Analysis of microwave and micromachined filters by the method of lines with nonequidistant discretization

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In this paper, it is shown that the method of lines (MOL) with a nonequidistant discretization scheme can be successfully applied to the rigorous design and modeling of certain classes of practical planar filters. Elliptic or quasi-elliptic microwave filters for HTS applications and membrane supported filters for millimeter-wave communication systems are analyzed. Experimental results are presented to prove the validity and accuracy of the formulation.

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