

# Abstracts

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

---

*P. Valade, D. Cros and P. Guillon. "Analysis of microwave and micromachined filters by the method of lines with nonequidistant discretization." 1999 MTT-S International Microwave Symposium Digest 99.2 (1999 Vol. II [MWSYM]): 703-706 vol.2.*

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.

[Return to main document.](#)