Abstracts

A New Finite Element Method Formulation Applied to D.R. Microwave Filter Design

V. Madrangeas, M. Aubourg, P. Guillon, S. Vigneron, B. Theron and D. Parise. "A New Finite Element Method Formulation Applied to D.R. Microwave Filter Design." 1990 MTT-S International Microwave Symposium Digest 90.1 (1990 Vol. I [MWSYM]): 415-418.

A new 3D finite element formulation using NEDELEC polynomials has been developed to compute electromagnetic and electrical parameters of microwave devices; to prove the advantages of this new formulation which does not generate any non physical responses, we have applied it to evaluate resonant frequencies f/sub 0/, unloaded Q/sub 0/ dielectric resonator (D. R.) used in the design of L band microwave filters.

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