Abstracts

Analysis and design of microwave structures using broad frequency band and shape driven edge finite element models

F. Thevenon, M.F. Wong, P. Guillaume, M. Masmoudi, M. Rochette and V. Fouad Hanna. "Analysis and design of microwave structures using broad frequency band and shape driven edge finite element models." 1997 MTT-S International Microwave Symposium Digest 3. (1997 Vol. III [MWSYM]): 1615-1618.

The use of high order derivatives is applied to obtain parametrized solutions in terms of frequency and shape for the analysis of microwave structures using 3D edge finite elements. These solutions are derived from the derivatives with respect to the frequency and/or geometric parameters of single frequency and/or geometric finite element solutions. These techniques allows the broad frequency band extrapolation as well as the shape optimization.

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