

A New Algorithm for the Accurate Alignment of Microwave Networks

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This paper presents a new algorithm suitable for the accurate alignment of microwave networks. The algorithm is developed from the sensitivity analysis of the network response with respect to the adjustable elements and does not require a knowledge of the network model. The algorithm computes the required adjustment as the solution of a Gauss-Newton system of equations and is implemented by quantifying the adjustment of each individual element setting. This procedure does not demand a previous characterization or calibration of the adjustable elements and has been proved to be efficient for the accurate alignment of different types of microwave filters.

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