Analysis of Hybrid Field Problems by the Method of Lines with Nonequidistant Discretization

The method of lines, which has been proved to be very efficient for calculating the characteristics of one-dimensional and two-dimensional planar microwave structures, is extended to nonequidistant discretization. By means of an intermediate transformation it is possible to maintain all essential transformation properties that are given in the case of equidistant discretization. The flexibltity of the method of lines is increased substantially. As a consequence, the accuracy is improved with reduced computational effort.

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