Abstracts

The Incorporation of Static Field Solutions Into the Finite Difference Time Domain Algorithm

This paper demonstrates how the accuracy, speed and flexibility of FDTD analysis may be improved for the modelling of MMIC structures. Correction factors, obtained from the known behavior of static fields close to discontinuities, may be incorporated into the algorithm for application in the regions of high field variation where errors would otherwise occur. Application is made to both enclosed and open microstrip structures.

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