Abstracts

Integrated Microwave Field Simulation Using Three Dimensional Finite Elements

Z.J. Cendes, J.F. Lee and D.N. Shenton. "Integrated Microwave Field Simulation Using Three Dimensional Finite Elements." 1990 MTT-S International Microwave Symposium Digest 90.2 (1990 Vol. II [MWSYM]): 721-723.

A method for microwave field simulation based on three-dimensional finite elements is described. The method employs solid modeling for geometry generation, Delaunay tessellation for mesh generation. H/sub 1/(curl) tangential vector finite elements for field solution, and transfinite elements for port representation. Applications to conventional and MMIC devices are described.

❑ Return to main document.