

Abstracts

Electromagnetic Simulator Interfacing to a General CAD Framework: Automatic, Electromagnetic-Based Mesh Generation

P.J. Draxler. "Electromagnetic Simulator Interfacing to a General CAD Framework: Automatic, Electromagnetic-Based Mesh Generation." 1993 MTT-S International Microwave Symposium Digest 93.3 (1993 Vol. III [MWSYM]): 1495-1498.

An electromagnetic simulator has been interfaced through a custom-meshing program to a general CAD framework. Standard information within the CAD framework (netlist information, location in layout and maximum simulation frequency) is all that is needed to automatically generate a surface mesh (consisting of triangles and rectangles) for the circuit through a systematic multi-level procedure. Additionally, the unique physics of particular elements can be easily incorporated into the mesh generation, thus ensuring accurate simulation.

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