Abstracts

Parameterization of Arbitrary Geometrical Structures for Automated Electromagnetic Optimization

J.W. Bandler, R.M. Biernacki and S.H. Chen. "Parameterization of Arbitrary Geometrical Structures for Automated Electromagnetic Optimization." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 1059-1062.

For the first time, this paper reveals and discusses the theoretical foundation of the Geometry Capture technique. Geometry Capture facilitates user-parameterization, through graphical means, of arbitrary 2D and 3D geometrical structures. This makes it possible to optimize the shape and dimensions of geometrical objects in an automated electromagnetic design process by adjusting the user-defined parameters subject to explicit numerical bounds and implicit geometrical constraints.

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