Abstracts

The Transfinite Element Method for Modeling MMIC Devices (1988 Vol. II [MWSYM])

Z.J. Cendes and J.-F. Lee. "The Transfinite Element Method for Modeling MMIC Devices (1988 Vol. II [MWSYM])." 1988 MTT-S International Microwave Symposium Digest 88.2 (1988 Vol. II [MWSYM]): 623-626.

A new numerical procedure called the transfinite element method is employed in conjunction with the planar waveguide model to analyze MMIC devices. By using analytic basis functions together with finite element approximation functions in a variational technique, the transfinite element method is able to determine the fields and scattering parameters for a wide variety of stripline and microstrip devices.

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