

Modeling of microwave circuits exploiting space derivative mapping

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We present a novel approach to microwave circuit modeling, space derivative mapping (SDM). SDM assumes the existence of an empirical model of the structure under consideration. It enables the construction of a space mapping-based locally valid model exploiting, for the first time, both the empirical simulations and the response sensitivity information. Parameter extraction uniqueness is no longer important. Statistical analysis of microwave circuits illustrates the SDM technique.

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