



Microwave De-embedding: Chapter 7. Behavioral Models for Microwave Circuit Design

José C. Pedro, Telmo R. Cunha

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This work presents an overview of the various facets of microwave device behavioral modeling technology, from the mathematical formulation to the required laboratory parameter extraction, focusing its attention on one of the less covered aspects: the embedding and de-embedding procedures associated with the behavioral model extraction process. The discussion starts with the revision of some of the most important behavioral modeling tools, explaining the three most important types of behavioral model formats (polynomial, artificial neural networks, and table-based models) and their instantiation in the context of microwave transistors. Then, it will evolve to the behavioral model parameter extraction procedures, reviewing the required specific microwave instrumentation and correspondent calibration and de-embedding of measurement data. Finally, this chapter will illustrate the use of embedding and de-embedding procedures in the behavioral modeling context, giving a particular emphasis on the needed behavioral model inversion techniques.

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