Abstracts

A Volterra mapping-based S-parameter behavioral model for nonlinear RF and microwave circuits and systems

This paper presents a Volterra mapping-based S-parameter equivalent model for nonlinear RF/microwave circuits and systems. In this S-parameter-oriented approach to behavioral modelling, the linear part and the nonlinear parts are independent and have their own physical definitions. It is straightforward to obtain estimates of linear and nonlinear distortion by using the model parameters, as well as obtaining predictions of the behaviour of nonlinear networks.

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