

## عنوان مقاله:

An Efficient Technique for Substrate Coupling Parasitic Extraction with Application to RF/Microwave Spiral Inductors  
(RESEARCH NOTE)

## محل انتشار:

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## خلاصه مقاله:

This paper presents an efficient modeling method, based on the microstrip lines theory, for the coupling between a substrate backplane and a device contact. We derive simple closed-form formulas for rapid extraction of substrate parasitics. We use these formulas to model spiral inductors as important substrate-noise sources in mixed-signal systems. The proposed model is verified for the frequencies up to ۳۵ GHz, and is easily adaptable to CAD tools.

## کلمات کلیدی:

Substrate Coupling, Microstrip Lines, mixed, signal, Spiral Inductors, CAD Tools

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1415996>

