

Non-Linear Diode Library

Modelithics[®] introduces the NLD Library[™], a library of non-linear diode models for use with Agilent Technologies' (ADS) electronic design automation software. The library consists of dozens of Schottky and varactor diodes, with PIN diodes and more under development. Unique features include substrate scaling and temperature dependence. Substrate scalable diode models are valid over a continuous range of substrate thickness and dielectric constant. Temperature dependent models include applicability over a wide range of operating temperatures. The models, which are fully integrated with Agilent ADS, incorporate bias-dependent factors to describe non-linear I-V and C-V characteristics. They also predict harmonics and reflect variations with RF power, validated using gain compression and spectral measurements.

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<http://www.wirelessdesignmag.com/product-releases/2004/08/non-linear-diode-library>