First Complete, Front-to-Back Solution for MMIC, RF Module Design

Agilent Technologies Inc. introduces its Advanced Design System 2009 Update 1, a complete, front-to-back solution for monolithic microwave integrated circuit (MMIC) and RF module design. The release integrates 3-D electromagnetic (EM) analysis, wireless standards-based design verification libraries, X-parameter simulation, and statistical design and yield optimization.

Advanced Design System (ADS) 2009 Update 1 allows designers to stay within the design and simulation platform of choice for their entire design cycle and eliminates the need for separate, time-consuming point tools.

Major benefits and features in ADS 2009 Update 1 include: •Integrated planar and 3-D EM simulation and analysis that allows designers to account for EM effects from packages and interconnects without any import or export of data or models. This saves time and makes the overall design process more efficient and accurate.

•An X-parameter simulation model generator that delivers fast, drop-in useable and accurate nonlinear behavioral models. These models eliminate the need for datasheets of specification-based characterization parameters and the laborious measurements typically required for accurate designs.

•Easy-to-use statistical and yield optimization that allows the designer to interactively modify settings in real time during the optimization, resulting in better, faster designs.

ADS 2009 Update 1 also includes other enhancements for MMIC design:

•An MMIC layout personality, allowing one-click access to commonly used MMIC layout functions for ease-of-use and increased engineering productivity.

•Access to ADS layout functions from foundry-endorsed Process Design Kit (PDK) components for faster, error-free MMIC/system-in-package (SIP) layout and design synchronization with the schematic.

•Mentor Calibre Layout-Vs-Schematic (LVS) integration in the MMIC/SIP design flow, ensuring error-free layout connectivity before hardware fabrication.

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