# Three-Dimensional EM Simulation Platform Enhances RF Simulation Speed

Agilent Technologies announced shipment of the latest release of its Electromagnetic Professional software, EMPro 2011.11. The updated 3-D modeling and simulation platform features enhancements to further speed and improve RF design and verification.

Tightly integrated with Agilent's Advanced Design System, EMPro is used to create 3-D models and analyze electrical performance of packages, connectors, antennas and other RF components. The EMPro 2011.11 release builds on advances made available in the 2011.07 release, introducing key improvements to the finite-element method simulator:

-A fast FEM iterative solver that doubles the speed of simulations that include internal ports (which had already been doubled in the previous release). This continuous improvement reflects Agilent's ongoing commitment to fast-paced advancements in simulation technology.

-A user-defined passive loads capability. This allows users to include ideal passive loads directly in an FEM simulation to represent matching circuits and surface-mount components. (The loads are defined in the EM setup environment, which consists of common series and parallel RLC network topologies. This capability enables accurate field visualization results and radiation patterns that take into account passive loads.)

-A fast, two-dimensional port solver that simplifies FEM simulation port setup. The solver allows users to quickly and easily determine the number of modes, as well as reference impedance and optimum impedance line placement.

### U.S. Pricing and Availability

The EMPro 2011.11 release is now available for download. Pricing for the EMPro environment starts at $7,000. Interested parties can evaluate the software by applying for a trial version

at www.agilent.com/find/eesof-empro-downloads-and-trials [1]. They can also download application examples
at edocs.soco.agilent.com/display/eesofapps/EM+Applications [2]. These examples cover a wide range of topics, including packaging, antennas, RF PCBs, RF modules, connectors and radar applications.

More information on EMPro 2011.11 is available at

www.agilent.com/find/eesof-empro2011.11 [3]. Photos of the new software release are available at www.agilent.com/find/ADS_EMPro_2011_images [4].

**About Agilent EEsof EDA Software**

Agilent EEsof EDA is the leading supplier of electronic design automation software for microwave, RF, high-frequency, high-speed digital, RF system, electronic system level, circuit, 3-D electromagnetic, physical design and device-modeling applications. More information is available at www.agilent.com/find/eesof [5].

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