

- PRESS RELEASE -

Efficient Sensitivity Analysis Methods Introduced in CST MICROWAVE STUDIO 2010

Rome, Italy, September 29th 2009, Computer Simulation Technology (CST) announces the introduction of an efficient algorithm in CST MICROWAVE STUDIO® (CST MWS) that enables sensitivity analysis for several parameters in a single simulation run.

Optimization is a typical component of any design engineer's workflow. With the introduction of new global (genetic, particle swarm) and local (Nelder-Mead) optimizers, CST addressed this issue with release 2009 of CST STUDIO SUITE™. With version 2010 CST goes one step further. CST MWS 2010 features a sensitivity analysis algorithm which is capable of evaluating the s-parameter dependencies on various model parameters after a single 3D electromagnetic simulation run. This means that all further evaluations for different model parameter sets can be derived without restarting the full-wave simulation.

The efficiency of this new sensitivity analysis approach now makes Monte-Carlo based yield analysis feasible even for complex three-dimensional structures. This is due to the s-parameter results being available at virtually no additional effort or computational cost.

"The sensitivity of a device's performance to small parameter variations is a key concern in many design processes," stated Dr. Martin Timm, Director of Marketing, CST. "Traditional approaches require multiple 3D simulations to derive the various parameter dependencies. CST's new sensitivity analysis gives engineers a fast and efficient means of further minimizing design risk."

Availability

Sensitivity analysis will be available with CST MICROWAVE STUDIO version 2010 from January 2010.

About CST

CST develops and markets high performance software for the simulation of electromagnetic fields in all frequency bands. Its success is based on the implementation of unique, leading edge technology in a user-friendly interface. CST's customers operate in industries as diverse as Telecommunications, Defense, Automotive, Electronics, and Medical Equipment, and include market leaders such as IBM, Intel, Mitsubishi, Samsung, and Siemens. With 160 employees worldwide and a network of qualified distributors, over 190 people are dedicated to the development and support of its EM products in more than 30 countries.

CST's flagship product, CST MICROWAVE STUDIO® (CST MWS) is the market leader in Time Domain simulation. It enables the fast and accurate analysis of high frequency (HF) devices such as antennas, filters, couplers, planar and multi-layer structures and SI and EMC effects. CST MWS can offer considerable product to market advantages such as shorter development cycles, virtual prototyping before physical trials, and optimization instead of experimentation.

Further information about CST is available on the web at <http://www.cst.com>.

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