

PRESS RELEASE

CST MICROWAVE STUDIO® enhanced by Integral Equation Solver.

September 12th, 2006, Computer Simulation Technology (CST) enhances CST MICROWAVE STUDIO® (CST MWS)ʼs palette of high frequency solvers for 3D EM simulation by the addition of an Integral Equation solver, based on the Multilevel Fast Multipole Method (MLFMM). The beta version of this solver, dedicated to tackle electrically large structures, is demonstrated at EuMW 2006, booth #309.

R&D engineers dealing with electrically large structures, will be interested in CST's new Integral Equation solver based on the Multilevel Fast Multipole Method (MLFMM). It is designed to facilitate tasks like antenna placement on an airplane (or car) and radar cross section (RCS) calculations of large scattering objects. The Integral Equation solver scales much better with the electrical structure size than traditional MoM solvers, this is further supported by its ability to use and mix 1st, 2nd, and 3rd order elements. This enables the effective simulation of structures much larger than 20 wavelengths. Furthermore it is capable of dealing with dielectric losses. The new Integral Equation solver is seamlessly integrated in the CST DESIGN ENVIRONMENT™, thus promoting synergic utilization of the easy-to-use modeler and frontend.

"The addition of our new Integral Equation solver to CST STUDIO SUITE™ ensures that design engineers dealing with electrically large structures can efficiently calculate highly accurate solutions, keeping them at the forefront of product development" commented Dr. Peter Thoma, CST's Managing Director, R&D. "Traditional MoM solvers generally suffer from poor scalability in terms of memory requirements and computation time whereas CST's new Integral Equation Solver offers the inbuilt advantages of the MLFMM approach."

Availability

The Integral Equation solver will be available with CST MICROWAVE STUDIO® 2006B in Q4 of 2006.

About CST STUDIO SUITE™

The CST STUDIO SUITE™ comprises CST's 3D EM simulation tools: the renowned CST MICROWAVE STUDIO® for high frequency applications, CST EM STUDIO™ for low frequency and statics and CST PARTICLE STUDIO™, for charged particle dynamics, and is rounded off with CST

DESIGN STUDIO™ for synthesis and circuit simulation. All programs are accessible through CST DESIGN ENVIRONMENT™ which facilitates coupled simulation.

About CST

CST is one of the two largest suppliers of electromagnetic simulation software and has continuously enhanced its position as market and technology leader in 3D Time Domain simulation. With over 90 employees worldwide and a network of qualified distributors, 130 people are dedicated to the development and support of its EM products in more than 30 countries. Information about CST is available on the web at www.cst.com.

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