

- PRESS RELEASE -

CST STUDIO SUITE 2011

Now shipping

February 18th, 2011, Computer Simulation Technology (CST) announces shipping of CST STUDIO SUITE™ version 2011 has commenced. CST STUDIO SUITE comprises CST's simulation software offering. It includes the technology leading high frequency 3DEM simulator CST MICROWAVE STUDIO®.

Researchers and engineers use CST STUDIO SUITE for the design of EM based components in application areas as diverse as MW&RF component design, EMC and signal integrity analysis. CST's latest software release, CST STUDIO SUITE version 2011 and its multitude of powerful new features and functionality can help them to streamline their workflows and shorten development cycles.

Automatic optimization and sensitivity analysis are key requirements in a highly efficient design flow. Both of the CST MICROWAVE STUDIO (CST MWS) general purpose electromagnetic solvers – time and frequency domain - can provide sensitivity information for an arbitrary number of parameters in just one simulation run. The newly implemented trust region framework in CST STUDIO SUITE 2011 can employ the sensitivity information to cut down optimization time dramatically. Yield analysis for complex three dimensional models is now available at virtually no additional computational cost. High performance computing options are now also available for the frequency domain and the integral equation solver.

Engineers interested in the analysis of radiated emissions and susceptibility will benefit from a single unified environment for all EMC related modeling tasks, including greatly simplified model set up and simulation. The CST MWS TLM solver (CST MICROSTRIPES) and CST CABLE STUDIO (CST CS) provide powerful features for “real world” EMC analysis including coupled simulations which enable large system analysis and installed performance studies. In pre-processing, the definition of compact equivalent aperture models and cable harnesses will be performed in CST's familiar design environment. Coupling between the electromagnetic field and cable solvers is further enhanced to enable direct transient simulation of susceptibility problems in systems containing complex cable bundles, including shielded twisted pair circuits.

The multi-physics flow inside CST STUDIO SUITE 2011 has been enhanced further. Based on one single simulation model, the simulation task concept facilitates optimization, considering electromagnetic, thermal

and mechanical. The temperature calculated from the electromagnetic losses can be used to change the material parameters automatically for a consecutive electromagnetic field simulation. CST MPHYSICS STUDIO now also features a thermal solver on tetrahedral grids.

Highlights of CST STUDIO SUITE 2011

- Transient solver
 - Sensitivity analysis
 - Dispersive surface impedance models and ohmic sheets
 - Coated materials
 - Temperature dependent electrical material properties
 - Integration of CST MICROSTRIPES
 - GPU computing: NVIDIA® Tesla™ 20 series support
- Frequency domain solvers
 - Arbitrary order curved elements
 - General frequency dependent tensor materials
- Integral equation solver
 - 1D-Modelling for wires added
 - Domain decomposition and cluster computing for MLFMM
 - Multiple farfield sources for installed antenna performance simulation
- Asymptotic solver
 - Multiple farfield sources for installed antenna performance simulation
 - Coated materials
 - Ohmic sheets
- Integration of CST MWS into the Cadence® RF-SiP design flow

Availability

CST STUDIO SUITE 2011 is now shipping. The shipping process is expected to be completed by February 28 2011.

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 180 employees worldwide and a network of qualified distributors, over 220 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 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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Graphics

PR graphics can be downloaded from the news section of CST's website at:

http://www.cst.com/Content/News/Documents/news_item_162/1102_CSTS2_2011_PR.zip

"The CST STUDIO SUITE graphical user interface. It shows the simulation model of a cable harness in a compact car for EMC analysis."

Trademarks

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