

- PRESS RELEASE -

CST STUDIO SUITE 2015 Combines Synthesis and Simulation

Rome, October 7, 2014, CST - Computer Simulation Technology AG (CST) will preview the upcoming version of its flagship electromagnetic simulation tool, CST STUDIO SUITE® 2015, at European Microwave Week (EuMW) 2014, booth 109.

CST STUDIO SUITE is used by engineers and researchers working across the electromagnetic spectrum to model systems and optimize designs. Its tightly-integrated solvers cover a broad range of frequencies and geometrical scales, and are complemented by more specialized technology for applications such as PCBs, cables, thermal analysis, and charged particle devices.

As devices become more compact and more connected, the old distinctions between different fields of engineering break down. Increasingly, even a single design task can involve multiple simulation disciplines. With CST STUDIO SUITE 2015, the links between the different simulation domains have been tightened and new tools have been added to allow users to go beyond what can be done with electromagnetic field simulation alone.

Synthesis and design tools supplement simulation by making it possible to generate initial designs quickly and accurately. To help antenna engineers get the most out of simulation, CST has recently added Filter Designer 2D, and is introducing the new Phased Array Wizard. These new tools complement the antenna synthesis capability of Antenna Magus and speed up the whole EM design process

The solvers themselves are now also more powerful and more flexible. The frequency domain solver has had several performance improvements to boost its power and versatility, making it much easier to simulate extremely large and complex multiport models such as multi-pin connectors or densely populated antenna arrays. The introduction of nearfield sources to the frequency domain solver and the asymptotic solver mean that these solvers can now be linked more easily to simulations using other solver types.

Users working at the limits of current computing technology will also benefit from the new high-performance computing features in CST STUDIO SUITE 2015. The ability to access high-performance storage on computer clusters makes the simulation of very large models, which can generate many gigabytes of field data, much more efficient, and the new Intel® Xeon Phi™ co-processor is supported, increasing the range of hardware acceleration options for users.

As well as introducing these new features at EuMW, CST also has a full schedule of presentations at its booth, including an afternoon of talks in Italian. These include CST presentations, live demonstrations, and talks from our customers in Italy, and cover topics including metamaterials, antenna design and the link between simulation and measurement. Registration for the EuMW exhibition is free of charge, and the CST talks are open to all exhibition visitors. For an overview of all booth presentations see www.cst.com/EuMW-flyer or visit the CST booth and pick up a leaflet.

“European Microwave Week is always a good opportunity for us to talk to engineers about the latest trends in the field,” commented Dr. Peter Thoma, Managing Director R&D, CST. *“We’re excited to be able to unveil CST STUDIO SUITE 2015 there, and look forward to hearing visitors’ feedback.”*

Highlights of CST STUDIO SUITE 2015

- General
 - 3D mouse support
 - Parametric import for SolidWorks and Pro/E files
 - Improved field visualization
 - Phased Array Wizard
- Transient solver
 - Faster, more accurate meshing with e-FPBA
 - Improved port mode solver
 - Spectrogram plot
- Frequency domain solver
 - Nearfield source excitation
 - Support for very large meshes
- Integral equation solver
 - Quad meshing
- Asymptotic solver
 - Nearfield excitation
 - RCS map
- Materials
 - Graded material
 - Temperature dependent lossy metal
 - Angle and frequency-dependent coating for RAM
- Multiphysics
 - Tetrahedral mesh for transient thermal solver
 - Circuit-thermal coupling
 - Nonlinear blood flow for bio-EM simulations

Availability

CST STUDIO SUITE 2015 is due for release at the end of Q1 2015.

About CST

Founded in 1992, CST offers the market's widest range of 3D electromagnetic field simulation tools through a global network of sales and support staff and representatives. CST develops CST STUDIO SUITE, a package of high-performance software for the simulation of electromagnetic fields in all frequency bands, and also sells and supports complementary third-party products. Its success is based on a combination of leading edge technology, a user-friendly interface and knowledgeable support staff. CST's customers are market leaders in industries as diverse as telecommunications, defense, automotive, electronics and healthcare. Today, the company enjoys a leading position in the high-frequency 3D EM simulation market and employs 250 sales, development, and support personnel around the world.

CST STUDIO SUITE is the culmination of many years of research and development into the most accurate and efficient computational solutions for electromagnetic designs. From static to optical, and from the nanoscale to the electrically large, CST STUDIO SUITE includes tools for the design, simulation and optimization of a wide range of devices. Analysis is not limited to pure EM, but can also include thermal and mechanical effects and circuit simulation. CST STUDIO SUITE 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 <https://www.cst.com>.

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