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REMCOM Electromagnetic Simulation Solutions

XSite Newsletter | October 2010

Top Story

Preview of Wireless InSite Release 2.6 with GPU Acceleration

Remcom is extending XStream GPU acceleration to the upcoming release of Wireless InSite, planned for early 2011. We will preview the new release at the MILCOM 2010 conference, October 31 - November 3 in San Jose, California. Remcom engineers will demonstrate the new features on a custom system outfitted with the latest in GPU technology at Remcom's booth (#1510). As with Remcom's XFdtd software, XStream will be bundled at no additional cost with the new release of Wireless InSite.

Read the full story…

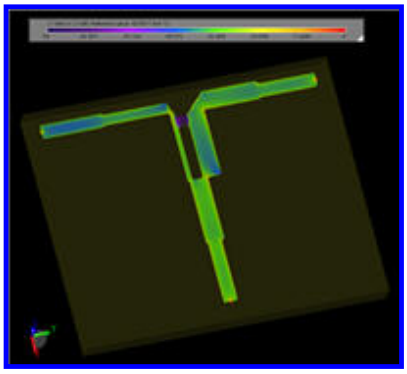
Quick Links

Application Examples

Wilkinson Power Divider

A Wilkinson Power Divider is loaded into XF7 and an S-Parameter analysis is performed.

Read the Wilkinson Power Divider example…



User Tip

October User Tip: Guarantee Separate Parts in Mesh

Using the Separate Objects in Mesh feature, XFdtd can guarantee that two Parts do not touch in the Mesh.

Read this month's user tip on Separate Parts in Mesh…

See all tips in the User Tips Library…

Featured Paper

A Novel Spiral Radiofrequency Coil for High Field Mouse Cardiac Imaging

This conference paper represents joint work pursued at the Laboratory of Physiology and Biomedical Imaging (LBI) at the University of Cyprus (Cyprus) and the Center for In Vivo Microscopy (CIVM) at Duke Medical Center (USA) to describe the design, implementation and construction of a novel spiral radiofrequency coil for optimal mouse cardiac MRI. The benefits from flat and cylindrical arrangement of the coil are compared using computer simulations and MRI experiments in various cases of free space, phantom, and animal loading conditions. The results establish a platform for accurate, quantitative comparisons of B_1 performance of any coil design and geometry in a fully automated fashion. Remcom's XFdtd is used for the simulation in a rodent animal model and in phantoms, using accurate electrical/magnetic property definitions of employed compartments/organs.

Download this paper...

Other News: Presentations at Industry Events

Now Available for Download: Analysis of Accuracy and Stability of FDTD Subgridding Schemes

Presented at European Microwave Week, Paris, September 29, 2010

This presentation examines the accuracy of spatial and temporal interpolation and the stability due to material traverse of FDTD subgridding schemes.

Download this presentation…

Modeling the Effects of Wind Turbines on Radar Returns

MILCOM, San Jose, CA
Unclassified Technical Program: Communications Techniques
November 1, 2010, 9:30-11:00 am

Wind turbines located near radar installations can interfere with a radar's ability to detect its intended targets. Remcom's propagation team will discuss how XGtd can be used to analyze the radar returns from wind turbines in order to address the interference they may create.

Read about this upcoming presentation…

►Events

Upcoming Events

MILCOM
Booth #1510
San Jose, CA
Oct. 31-Nov. 3

Loughborough Antennas & Propagation
Loughborough Univ., United Kingdom
Nov. 8-9

ACES 2011
Williamsburg, VA
March 27-31

ISMRM 2011
Montréal, Québec, Canada
May 7-13

IMS 2011
Baltimore, MD
June 5-10

AP-S 2011
Spokane, WA
July 3-8

View Remcom's Event Schedule...

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