
Hyperlynx Full Wave Solver Mentor Graphics

hyperlynx full-wave solver data sheet - cadware - mentor graphics hyperlynx full-wave solver is a powerful 3d, broadband, full-wave electromagnetic solver providing unprecedented speed and capacity, while preserving gold-standard maxwell accuracy. its multi-core architectures power the best-in-class solver for faster time to correct results, even on the most challenging problems. **an introduction to hyperlynx si/pi technology** - full-wave-solver environment. structure geometries are passed, em ports are formed, simulations are run, and s-parameter results are returned and incorporated into time-domain simulations, automatically. to keep up with leading-edge serdes simulation, hyperlynx includes the ability to simulate serdes signaling based on pam-4 modulation. **hyperlynx product update - asicentrum** - analog and full mixed signal simulation capability —support for analog and digital primitives —standard language support - vhdl, vhdl-ams, spice, & verilog-a —power adms and eldo simulation kernels full featured waveform viewing with ezwave —including complex waveform calculations hyperlynx product update **impact of return path discontinuities in high speed serial ...** - 3d full wave field solver sdd11 sdd21 eric bogatin 2009 slide -34 bethesignal vl-240 return path and hssl integrated simulation flow 1. convert/synthesize physical design into 3d model with cst 2. simulate s-parameter model of interconnects with cst microwave studio 3. bring touchstone model into hyperlynx 4. simulate eye with hyperlynx **hyperlynx 3d em - ral software** - hyperlynx 3d em is the industry's leading full-wave 3d em design and verification solution proven to meet the capacity & run-time performance demands of complete package, pcb or circuit-level simulation and modeling. the results are **hyperlynx si/pi/thermal release highlights** - hyperlynx ® si/pi/thermal ... enabled, the traces that get sent to the hyperlynx full wave solver have their width shrunk to equal the average width of the trapezoidal shape to very closely mimic the effect of etching. this same effect is also modeled in the advanced decoupling wizard. in addition, the 3d via **hyperlynx high-speed serial interface analysis** - this document is for information and instruction purposes. mentor graphics reserves the right to make changes in specifications and other information contained in this publication without prior notice, and the **electromagnetic analysis of ac coupling capacitor mounting ...** - this example demonstrates how to build 3d full-wave models for the ac coupling capacitor mounting structures and how to build a system-level model of a simple channel with ac coupling capacitors simbeor 2007 electromagnetic solver from simberian inc. and hyperlynx+eldo system-level solver from mentor graphics are used to generate the results **serdes design challenges and their implications on pcb** - stub by performing backdrilling using hyperlynx full-wave 3d field simulator. this greatly reduces the insertion and return loss. the below graphs 4 shows the insertion loss= -2.7 db and return loss= -8.04 db without back drilling. fig -4: il (yellow) and rl (red) plot 1.7 backdrilling **ie3d-si full-wave 3d em simulation - ral software** - computing technology, which simulates the full structure with the optimal solution in a reasonable length of time. ie3d-si's full wave simulation can accurately model complex structures on packages, pcbs and ic/mmhc circuits for optimized system performance ... hyperlynx, the industry leading si and pi analysis tool, or ... **hyperlynx analog simulation engine (hlase) reference manual** - hyperlynx analog simulation engine (hlase) reference manual, pads9.1 9 chapter 1 introduction the hyperlynx analog simulation engine (hlase) is a high performance circuit simulator. hlase provides excellent simulation convergence, accuracy, charge conservation, and speed. it is spice-compatible, but not spice-based. **modeling differential via-holes without stitching vias** - localized 3d full-wave analysis of the common mode propagation through differential vias without stitching vias is not correct with any type of boundary conditions only hybrid model combining 3d full-wave differential mode model with a system-level 2d transmission plane model of pdn can reliably predict the transition of common mode through the **electrical optimization and simulation of your pcb design** - electrical optimization and simulation of your pcb design. ... 3d full-wave em modeling hyperlynx 3d em employs a unique 3d integral equation method to solve maxwell's equation ... electrical optimization and simulation of your pcb design created date: **electromagnetic modeling of three dimensional integrated ...** - electromagnetic modeling of three dimensional integrated circuits tsv electromagnetic analysis an accurate electrical modeling of the tsv arrays and merged tsv-rdl structures requires a complete 3d electromagnetic analysis. 3d full-wave simulation engines that accurately capture the frequency-dependant

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