

RSoft Releases OptSim™ 5.2

Enhanced modeling capabilities for 100G Coherent PM-QPSK, Interferometry based systems, Nonlinear Polarization rotation based all-optical switching systems, Bi-directional EFM system, Plastic Optical Fiber systems, and Mode-coupling based multimode systems

RSoft Design Group, the leader in Photonics Design Automation software, announced the release of its award winning Optical Communication Design Suite version 5.2, which includes OptSim and its multimode companion ModeSYS. The new release includes cutting-edge features to design and simulate next generation systems such as 100 Gbit/s coherent PM-QPSK, Polarization induced all-optical switching systems, Bi-directional Ethernet in the First Mile (EFM) system, Interferometry based systems, Multimode systems with mode-coupling effects, and Plastic Optical Fiber systems.

OptSim 5.2 is the ideal environment to model 100G Coherent PM-QPSK systems. In addition to the comprehensive set of models that include Constant-Modulus algorithm, Viterbi-Viterbi phase estimation, Electronic and Optical Dispersion Compensation, DSP-based polarization recovery, Karhunen-Loeve (K-L) BER estimation and Direct error-counting up-to and beyond a million bits, the new release now includes Dynamic phase tracking capability through LMS algorithm-based Training sequence and Decision driven equalization to account for dynamic phenomenon such as laser phase noise. The new release also includes models that allow the user to incorporate various mismatch effects in the coherent reception like the frequency and phase mismatch of the receiver local oscillator.

In addition, the advanced multimode fiber model of OptSim, which allows the user to account for important behaviors such as intermodal dispersion and differential mode attenuation, now comes with new powerful features to account for the mode coupling effects and improved support for large-core fiber with large modal volumes, such as plastic optical fiber. Another important feature of this new release is the support of Matlab versions from R2006a to R2010b for cosimulation.

OptSim 5.2 also comes with a number of improvements and enhancements to the existing models and the Graphical User Interface (GUI) such as support for software update checking. Moreover a number of new application notes have been added to assist customers in the design and optimization of a variety of advanced applications. With all these features in the new release, OptSim continues to be the state-of-the-art modeling software for optical communication systems

For further information on OptSim 5.2, and events featuring the software, please contact RSoft Design Group at info@rsoftdesign.com.

About RSoft Design Group, Inc.

RSoft Design Group is the worldwide leader in photonics design automation software and serves several industries including optical communication, optoelectronics and semiconductor manufacturing. Within optical communications, RSoft is the only company to provide a full range of design, optimization and planning software for the entire component to network-level hierarchy. RSoft also provides design tools for passive and active optoelectronics components and subsystems as well as advanced electromagnetic modeling software for optical metrology and lithography. RSoft Design Group, Inc. is a privately held corporation with offices in the US, Japan and Europe and supports over 10 distributors worldwide.

© 2010 RSoft Design Group, Inc. All rights reserved.

Media Contact:
Scott Lahodny, Marketing Manager
scott@rsoftdesign.com
RSoft Design Group, Inc.

The source for photonic and network design software