

RSoft Releases OptSim™ 5.1

Advanced modeling capabilities for 100G Coherent PM-QPSK, Interferometric Fiber-Optic Gyroscope, Bidirectional RSOA-based WDM-PON, Burst Mode data transmission, and electrical Spice circuit cosimulation

RSoft Design Group, the leader in Photonics Design Automation software, announced the release of its award winning Optical Communication Design Suite version 5.1, 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, Interferometric Fiber-Optic Gyroscope (I-FOG), bidirectional RSOA-based WDM-PON, Burst Mode data transmission, and advanced electrical circuit modeling with embedded Spice engine.

OptSim 5.1 is the ideal environment to model 100G Coherent PM-QPSK systems. The new release includes Constant-Modulus and Training Sequence based equalization algorithms, 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. Another important feature in this new release is the introduction of Interferometric Fiber-Optic Gyroscope modeling. OptSim provides a comprehensive platform to design next-generation I-FOGs, featuring advanced physical-layer system simulation including Monte-Carlo method, power budget analysis, and flexible signal visualization capabilities.

In addition, OptSim 5.1 comes with an embedded Spice engine, enabling the cosimulation of Spice circuits. Hence, the user can use the new Custom Component for Spice (CCS) model to implement any custom electrical circuit or use many existing Spice circuits widely available. Other notable new features include the introduction of a Reflective Semiconductor Optical Amplifier (RSOA) model, which is vital in state-of-the-art bi-directional PON deployments, and Burst-mode data transmission in PON systems that use the Time-division multiplexing technology.

The new release also comes with a number of improvements and enhancements to the existing models and the Graphical User Interface (GUI). Moreover a number of new application notes have been added to assist customers in the design and optimization of a variety of advanced applications.

For further information on OptSim 5.1, 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.

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