



RSoft Releases OptSim™ version 4.6

Award Winning Optical Communication Design Suite incorporates DPSK BER Estimation, EDC, and Advanced Testing and Reporting Features

March 2, 2006 – Ossining, NY – RSoft Design Group, the worldwide leader in photonics design automation software, announced the upcoming release of its Optical Communication Design Suite version 4.6, which includes award winning *OptSim* and its multimode add-on *ModeSYS*. The new release improves the overall usability of the tool and adds support for new major applications including Electronic Dispersion Compensation (EDC), 40 Gigabit per second systems, RF Photonics (e.g. Radio-over-Fiber links), DPSK systems, FTTx PON, and high-power optical amplifiers.

One of the advanced features newly implemented in *OptSim* 4.6 is new BER estimation technique for more accurate treatment of noise statistics based on Karhunen-Loève series expansion for optical signal and noise. This technique is considered more accurate compared to Gaussian approximation for noise statistics in systems where signal-noise beating and nonlinear phase noise are dominant noise mechanisms. An example of such systems is a DPSK system with direct-detection balanced receivers.

The other notable feature is EDC modeling by means of a Feed-Forward Equalization (FFE). The electronic dispersion compensation is a cost effective solution for upgrading Gigabit Ethernet links to 10 Gigabit per second and for extending their reach up to 300m. This solution is being investigated in a new IEEE standard, 10GBase-LRM 802.3aq.

The new release includes a number of Graphical User Interface and framework enhancements, in particular, generation of project reports. This feature allows to generate a detailed report on *OptSim* design under study including design layout, list of components, tables of components parameters, and plots of simulation results.

A number of new application notes have been added to assist customers in the design and optimization of a variety of advanced applications including: EDC in 10 Gigabit Ethernet links, Radio-over-Fiber link, 40 Gbps systems with different modulation techniques, WDM Ring with OADM, cladding-pumped EDFA, EYCDFA, SBS, *ModeSYS-BeamPROP* co-simulation for Lens and Rectangular Waveguide design, etc.

For further information on *OptSim* 4.6, and events featuring the software, please contact RSoft Design Group at info@rsftdesign.com. RSoft Design Group will also be exhibiting at OFC/NFOEC in Anaheim, CA March 7-9th, booth #2631.

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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