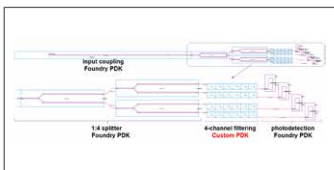
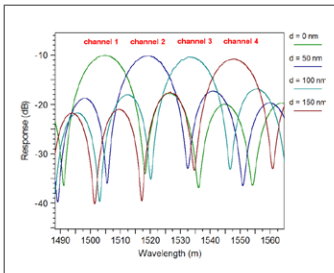
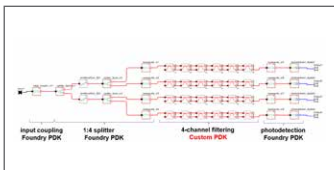
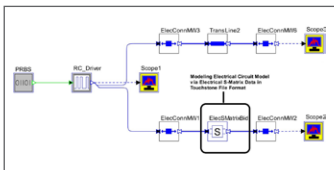
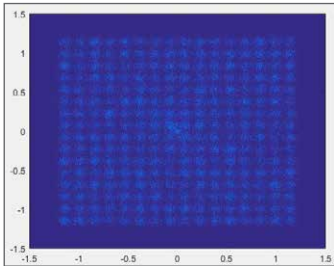


What's New in the RSoft Photonic System Design Suite



Solutions for the Design of Photonic Integrated Circuits and Optical Communication Systems

Version 2018.03 of the RSoft™ Photonic System Design Suite expands the products' support for the design of photonic integrated circuits (PICs) used in applications ranging from data communications to sensors and biomedical devices.

OptSim Updates

RSoft OptSim™ is an award-winning software tool for the design and simulation of optical communication systems at the signal propagation level and provides unmatched accuracy and usability. Version 2018.03 includes support for m-QAM and arbitrary constellation in the DSP Library for MATLAB to assist coherent system designers in developing custom digital signal processing algorithms for long-haul and metro data center interconnects.

OptSim Circuit Updates

RSoft OptSim Circuit provides an ideal platform for modeling optical systems and PICs that operate with coupling and feedback of different optical and electrical signal paths. Following are the latest OptSim Circuit features.

Support for the American Institute for Manufacturing Integrated Photonics (AIM Photonics) APSUNY PDK v2.0b

The PDK helps reduce PIC design costs and brings designers a step closer to fabrication through SUNY Polytechnic Institute silicon photonics processes.

Parametric custom PDK components created with the RSoft component tools S-Matrix/PDK Generation Utility

The enhancement supports multiple PDK variants through parameterization of S-matrices for PIC simulation and generation of netlists. Custom PDK components can be used as multi-stage PIC elements or as hierarchical circuit schematics, providing engineers with significant design flexibility and rapid prototyping capabilities.

Hierarchical components in the interface between RSoft OptSim Circuit and Phoenix OptoDesigner tools

Scalability is the key to supporting increasing component count and PIC design complexity. Hierarchical topologies enable design re-use and support parametric scans over subsections of the design.

OptSim, OptSim Circuit, and ModeSYS Update

OptSim, OptSim Circuit, and ModeSYS™ advanced tools now include the NxM Electrical S-matrix block supporting the Touchstone file format to model passive, linear electrical networks.

For more information or to start your free 30-day evaluation, please contact Synopsys' Optical Solutions Group at (626) 795-9101, visit [synopsys.com/optical-solutions/rsoft.html](https://www.synopsys.com/optical-solutions/rsoft.html) or send an email to rsoft_sales@synopsys.com.