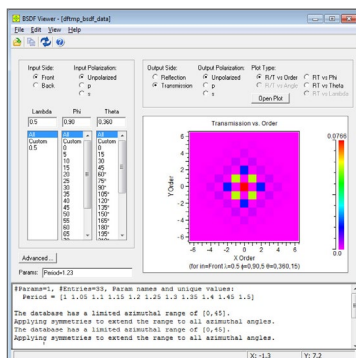
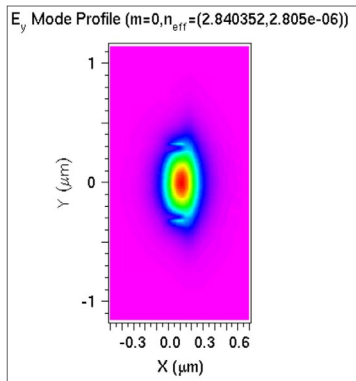
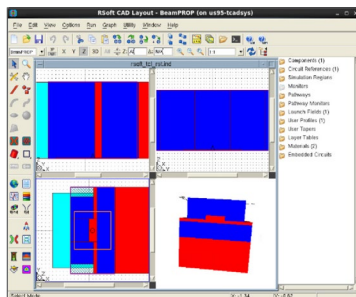
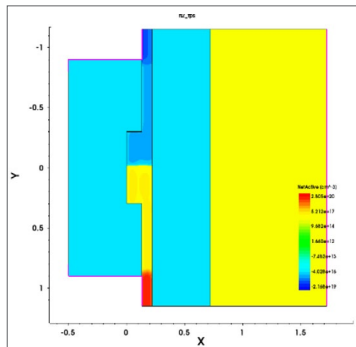


What's New in the RSoft Photonic Device Tools



The RSoft Photonic Device Tools provide the industry's broadest portfolio of simulators and optimizers for passive and active photonic and optoelectronic devices, including lasers and VCSELs – all integrated with Synopsys' optical and semiconductor design tools for complete, multi-domain co-simulations.

Integrated Optimization of Nanoscale and Macroscale Illumination Optics

The RSoft-LightTools Bidirectional Scattering Distribution Function (BSDF) interface produces interpolated BSDF files that allow designers to optimize nanoscale and macroscale optics directly in LightTools. This capability is especially useful for optimizing performance of AR/VR system components, including freeform optical prism projectors, eye tracking technologies, and optical planar waveguides with diffraction gratings.

Extended Custom PDK Model Data Generation

An expanded Custom PDK Utility allows designers to create PDK device models using co-simulation between the RSoft Photonic Device Tools and Sentaurus TCAD. The seamless integration of these industry-leading tools for semiconductor process and photonic device simulation produces accurate, complete optoelectronic models for modulators and detectors. An example model now provided with the software demonstrates how the Custom PDK Utility can be used to create ring and linear modulators.

New Graphical Waveguide Mode Utility

Easily automate the calculation of modal properties such as dispersion, group index, group velocity, etc. to help design waveguides, both straight and bent. The group index data is now automatically included in compact waveguide models produced by the Custom PDK Utility for more efficient modeling at the circuit level.

For more information, please contact Synopsys' Photonic Solutions at (626) 795-9101, visit <https://www.synopsys.com/photonic-solutions/rsoft-photonic-device-tools.html> or send an e-mail to photonics@synopsys.com.