FIMMPROP

Designing silicon photonics? Get the best simulation tool for the job. Get FIMMPROP



Applications:

Optical couplers Ring couplers Vertical couplers Fused fibre couplers Mode-size converters Optical gratings Y-junctions Slot waveguides Hollow core waveguides Surface plasmons waveguides Micro-bends Taper optimisation

1x12 SOI MMI Coupler

PICWave

Making innovative active PICs? Speed up your development Add PICWave to your simulation toolbox





Photon Design – leading the way in innovative photonics simulation tools since 1992, now used in over 30 countries around the world, in industry and academic research.

We can provide you a complete suite of simulation tools from waveguide mode solvers, passive component simulators, laser diode and other quantum well tools, all the way to full photonic circuit simulators.

If your devices are too hard for your existing tools, come visit us and challenge us to do better!

OmniSim

Omni-directional FDTD and FEFD simulations for arbitrary designs



Surface plasmon modelling for the development of light harvesting technology

Unique sub-gridding tool:

- ideal for plasmonics
- now supported by cluster & SMP



FDTD Engine Features:

- Symmetric Multi-Processing (SMP) for multi-core CPUs
- Subgridding add extra resolution where you need it, giving x4 to x64 speed improvement

- Cluster version supporting true SMP available for Windows and Linux clusters

Available in native 32-bit and 64-bit versions



Small ring resonators

LET OUR ADVANCED 64-bit FDTD MAKE THE MOST OF YOUR MULTI-CORE CPUs



Photonic crystal laser cavity modelled by Active FDTD including carrier rate equation



Band structure analysis for 2D and 3D lattices



Automatically optimised Y-junction in a photonic crystal lattice

CrystalWave is the ideal design tool for photonic crystals:

- The World's nicest photonic crystal lattice editor! Create lattices and line defects in just one click!

- Supports OmniSim's 3D FDTD and 2D FEFD Engines
- PWE Band Diagram Calculator

- Automatic lattice optimisation with Kallistos

- Efficient for even millions of holes!

CrystalWave

The complete design suite for photonic crystal applications



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