

PICS 3D – Evaluation (by Sudharsanan S – started on October 14th,2010)

Day 1 – Notes from the manual

PICS3D uses finite element analysis (FEM) to study various Photonic Integrated Circuit (PIC) components.

Applications of the software:

1. Fabry-Perot (FP) lasers.
2. Distributed Feedback (DFB) lasers.
3. Distributed Bragg Reflector (DBR) lasers.
4. Semiconductor Optical Amplifiers (SOA).
5. Waveguide photodetectors.
6. Vertical Cavity Surface Emitting Lasers (VCSELs).
7. External cavity lasers.
8. Fiber grating lasers.
9. Electrode absorption modulators (EAM).
10. Multi-section/Multi-electrode DFB or DBR lasers.
11. Multi-section photonic integrated circuit combining more than one of the above devices.