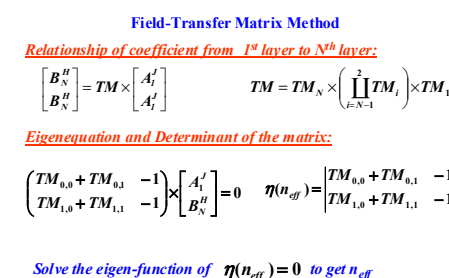
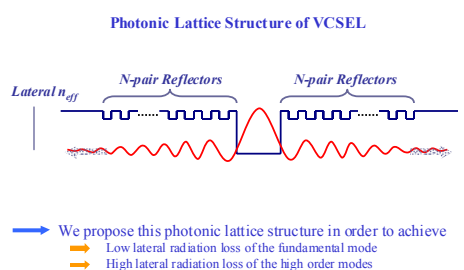
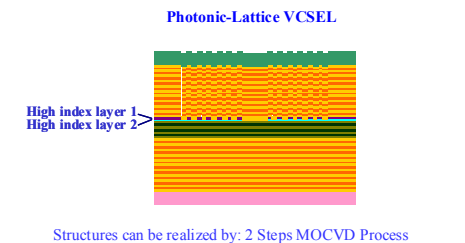
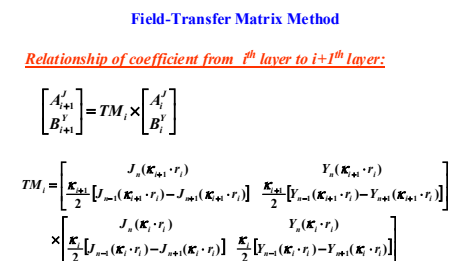
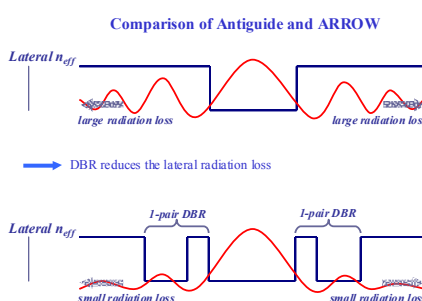
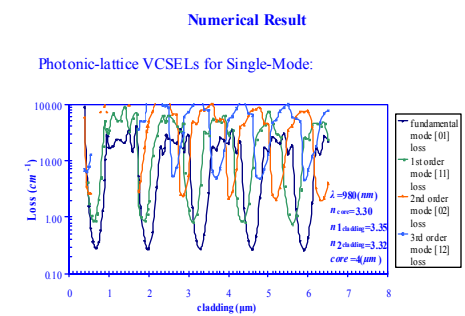
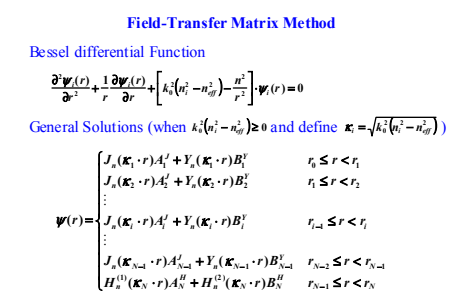
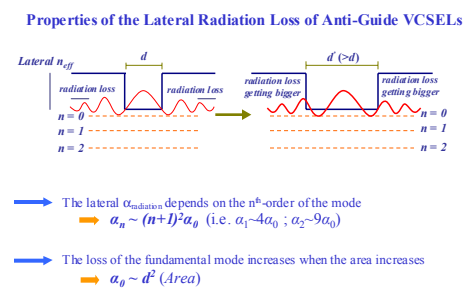
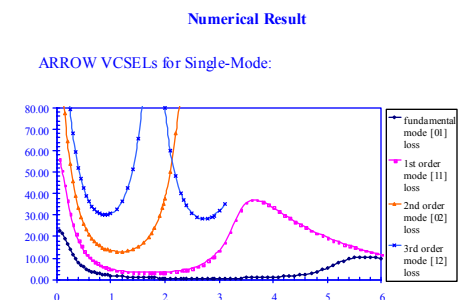
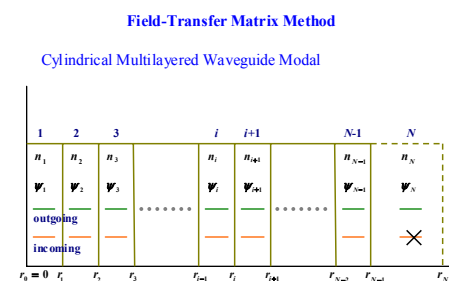
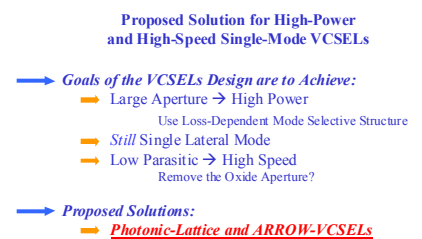
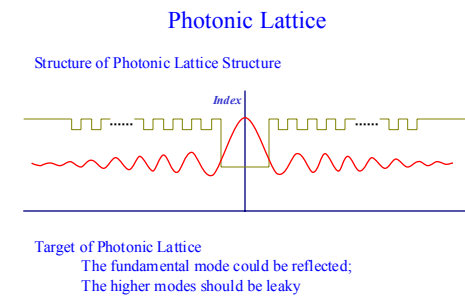
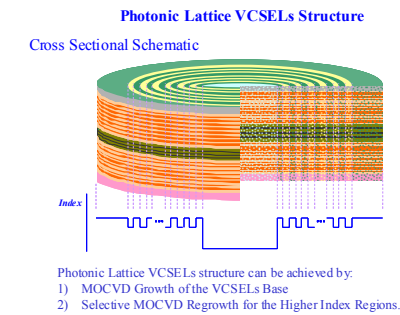
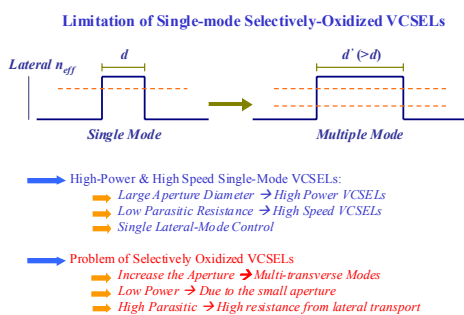
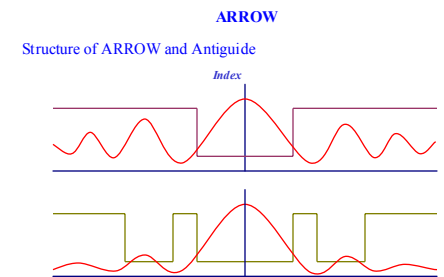
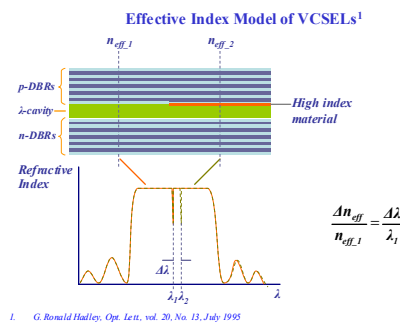
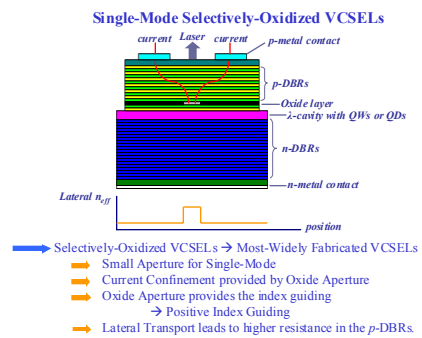


## Design Comparison of Photonic Lattice and ARROW-Type Single-Mode Vertical Cavity Surface-Emitting Lasers

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**Summary and Future Plan**

**Advantages:**

- Controllable single lateral mode due to only fundamental mode is selectively reflected
- High possibility to achieve large aperture diameter due to single fundamental mode is confined → High Power VCSELs
- Based on mature MOCVD fabrication technology

**Future plans:**

- Accurately confirm the modeling with ARROW and photonic lattice VCSELs
- Study the static and dynamic properties of VCSELs based on ARROW and photonic lattice structure
- Optimization for achieving the high speed VCSELs
- MOCVD growth of ARROW and photonic lattice VCSELs