

README


For Light coupling to photonic integrated circuits using optimized lensed fibers

FIGURE 7


- Folder: `./Figure7`

Code&Data


1. `Data_rho_w_eta.mat`

- **Description:**  Data for Figure 7c.
- **Generated by:** Simulation result using the method described in Appendix D.
- **Usage:** Used for plotting Figure 7c.


2. `Plot_rho_w_eta.m`

- **Description:**  Code for plotting Figure 7c to show the relation of ρ , w , and η_{prim} of the additive taper.
- **Input:** `Data_h_w_angle.mat`.
- **Usage:** Used for plotting Figure 7c.

3. `Data_trans_in_taper.xlsx`

- **Description:**  Data for Figure 7b.
- **Generated by:** Simulation result using the method described in Appendix D.
- **Usage:** Used for plotting Figure 7b.

4. `Plot_trans_in_taper.m`

- **Description:**  Code for plotting Figure 7b to show the transmission property of the fundamental mode and total power.
- **Input:** `Data_trans_in_taper.xlsx`.
- **Usage:** Used for plotting Figure 7b.

Notes

1. Run the `.m` scripts in MATLAB with the corresponding `.mat` files.
2. The MATLAB version is suggested to be higher than R2022b.