

## Fabrication and characterization of planar microlens for micro - device

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### Abstrak

A fabrication and application of planar micro-lens is presented in this thesis. With the goal of alignment free of the optical component, a branching circuit have been considered.

Even now, the alignment of optical components is still a problem. The advantages of the branching circuit consists of planar micro-lens is easy to connect with other optical component. Since integration of optical subsystems which allows the easy alignment and high efficiency is strongly required for future networks. But, the easier fabrication and complete alignment free of the system will be continued.

In this study, the optical micro-device component which using axial focusing scheme of planar micro-lens is carried outs and the easy aligning optical system technology will be discussed.