

MEMS tunable polarization rotator for optical communication

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Abstract
Describe briefly about the system

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Chapter 1

Introduction

1.1 Motivation

1.2 Objectives

1.3 MEMS and silicon photonics

1.4 Importance of these systems

1.5 Outline of this thesis

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Chapter 2

State of the art

2.1 Optical waveguides

2.2 Polarization in optical waveguides

2.3 Polarization rotator

2.3.1 Passive polarization rotator

2.3.2 Active polarization rotator

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Chapter 3

Design and simulation

3.1 Approach

3.2 Choice of simulation

3.3 Designing the experiment

3.3.1 Use case: Passive polarization rotator

3.3.2 Use case: Active polarization rotator

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Chapter 4

Fabrication

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Chapter 5

Results

5.1 Experimental setup for measurement

5.2 Results

5.3 Analysis

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Chapter 6

Conclusions

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Chapter 7

Limitations and future work

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Chapter 8

Acknowledgments

8.1 Sample

Here I have cited the [1] and [2] just for fun.

Bibliography

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