

# Chapter 5

## *Waveguide couplers*

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### 5.1) Introduction

### 5.2) The bi-directional coupler

5.2.1) *Theoretical aspects*

5.2.2) *Coupler design*

5.2.3) *Restrictions of the BPM simulations*

### 5.3) Multi-mode interference couplers

5.3.1) *Theoretical aspects*

5.3.2) *MMI design*



### 5.4) Star couplers

### 5.5) Conclusions

### 5.6) References

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