

Coupled Mode Theory and 50/50 Splitter

Eduardo A. V. Souza (RA 250950)^a, Ivan Prearo (RA 237215)^a

^aInstituto de Física "Gleb Wataghin", Universidade Estadual de Campinas, Campinas, São Paulo, Brasil

Abstract

Keywords: Waveguides, Coupled Mode Theory, Beamsplitters

1. Introduction

2. Infinite dielectric waveguide

2.1. Theory development

2.2. Numerical analysis

3. Rectangular dielectric waveguide

3.1. Theoretical development

3.2. Solo waveguide

3.3. Coupled waveguide

4. Conclusion

Referências Bibliográficas

Appendix