

EM Wave Propagation Waveguides

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Abstract

Electromagnetic wave propagation in guided structures.

1 Introduction

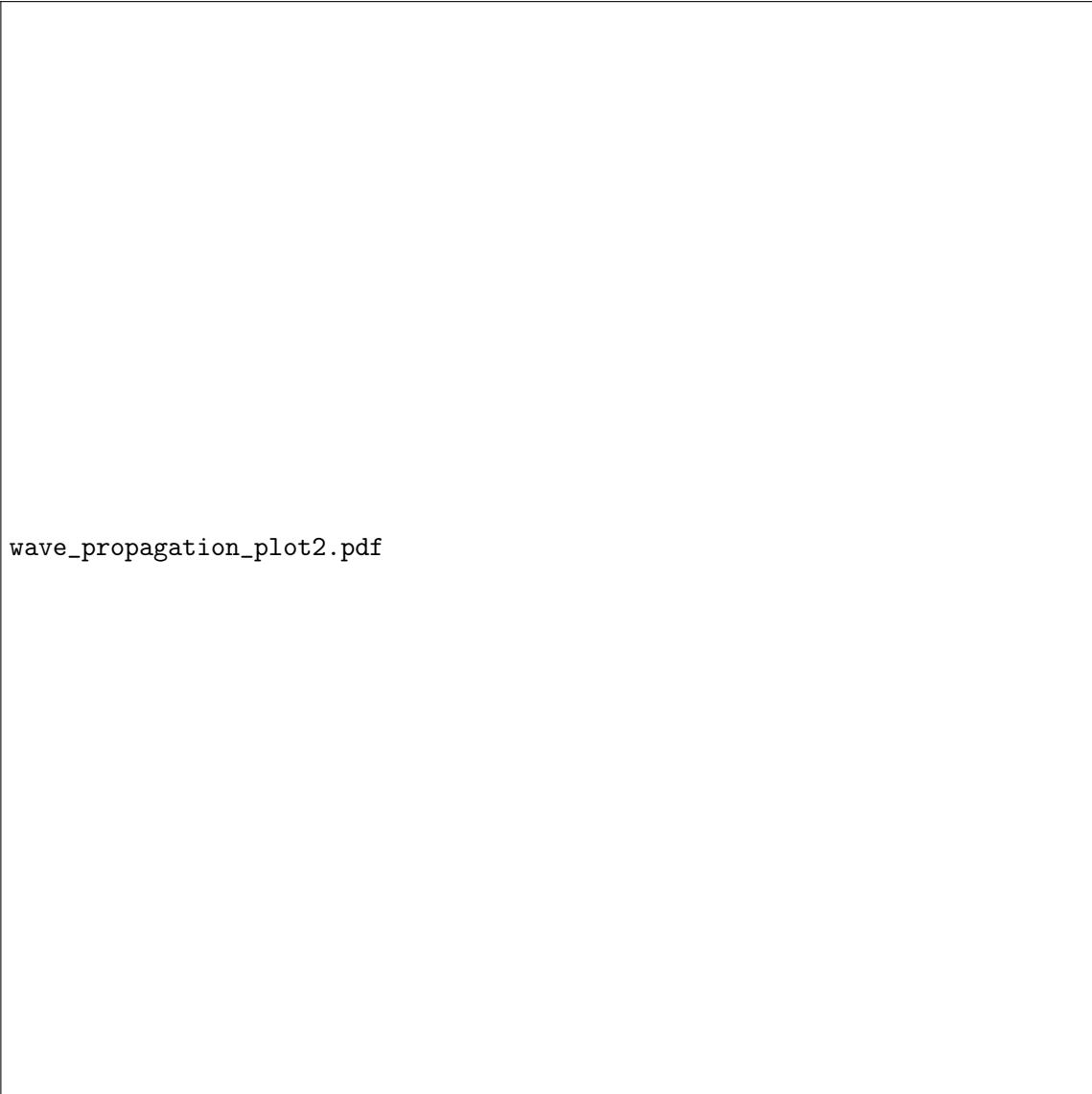
This report presents computational analysis of wave propagation.

2 Mathematical Framework



Figure 1: Primary analysis results.

3 Secondary Analysis



wave_propagation_plot2.pdf

Figure 2: Secondary analysis comparison.

4 Parameter Study



Figure 3: Parameter sensitivity analysis.

5 2D Visualization



wave_propagation_plot4.pdf

Figure 4: Two-dimensional field visualization.

6 Distribution Analysis



wave_propagation_plot5.pdf

Figure 5: Statistical distribution analysis.

7 Time Series



Figure 6: Time series visualization.

8 Results Summary

9 Conclusions

This analysis demonstrates the computational approach to wave propagation.