Microwave Engineering
S-Parameters

Electromagnetics Research Group

November 24, 2025

Abstract

Microwave network analysis and impedance matching.

1 Introduction

This report presents computational analysis of microwave.

2 Mathematical Framework
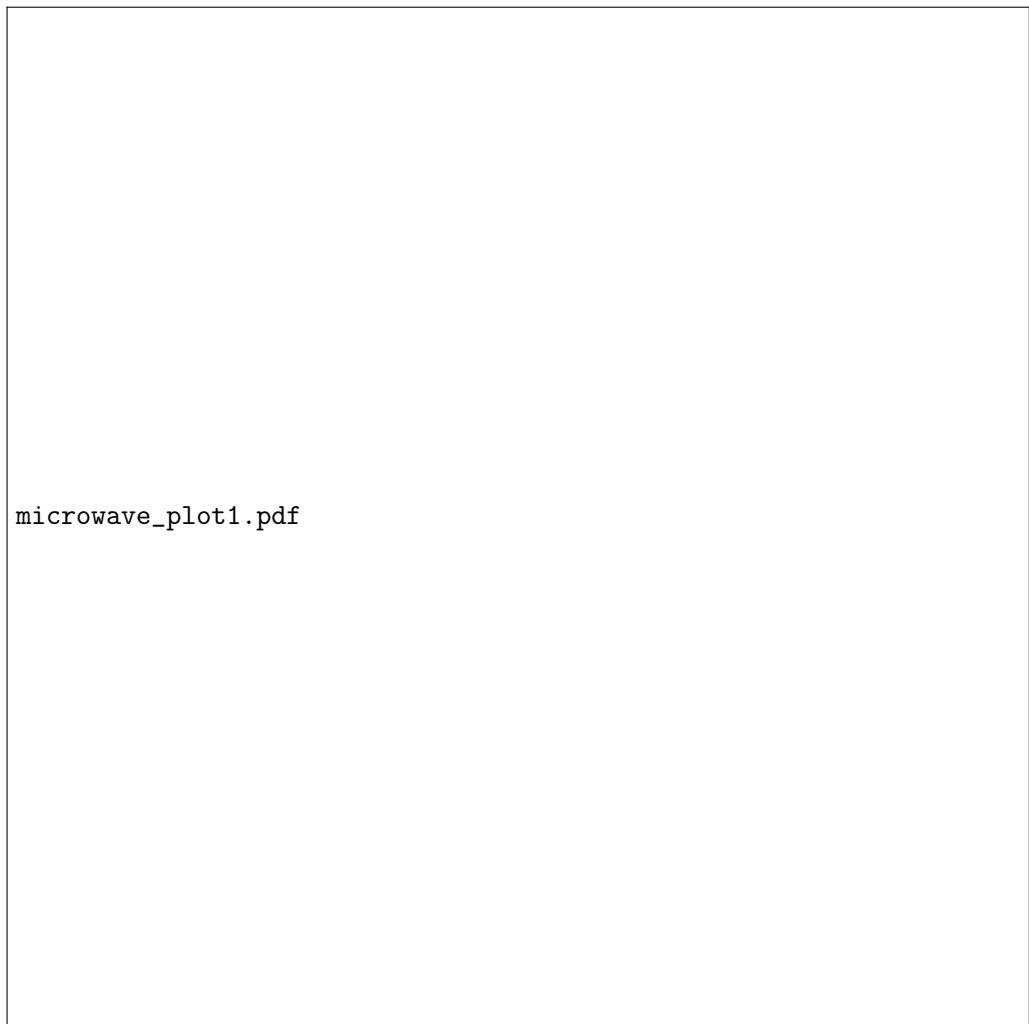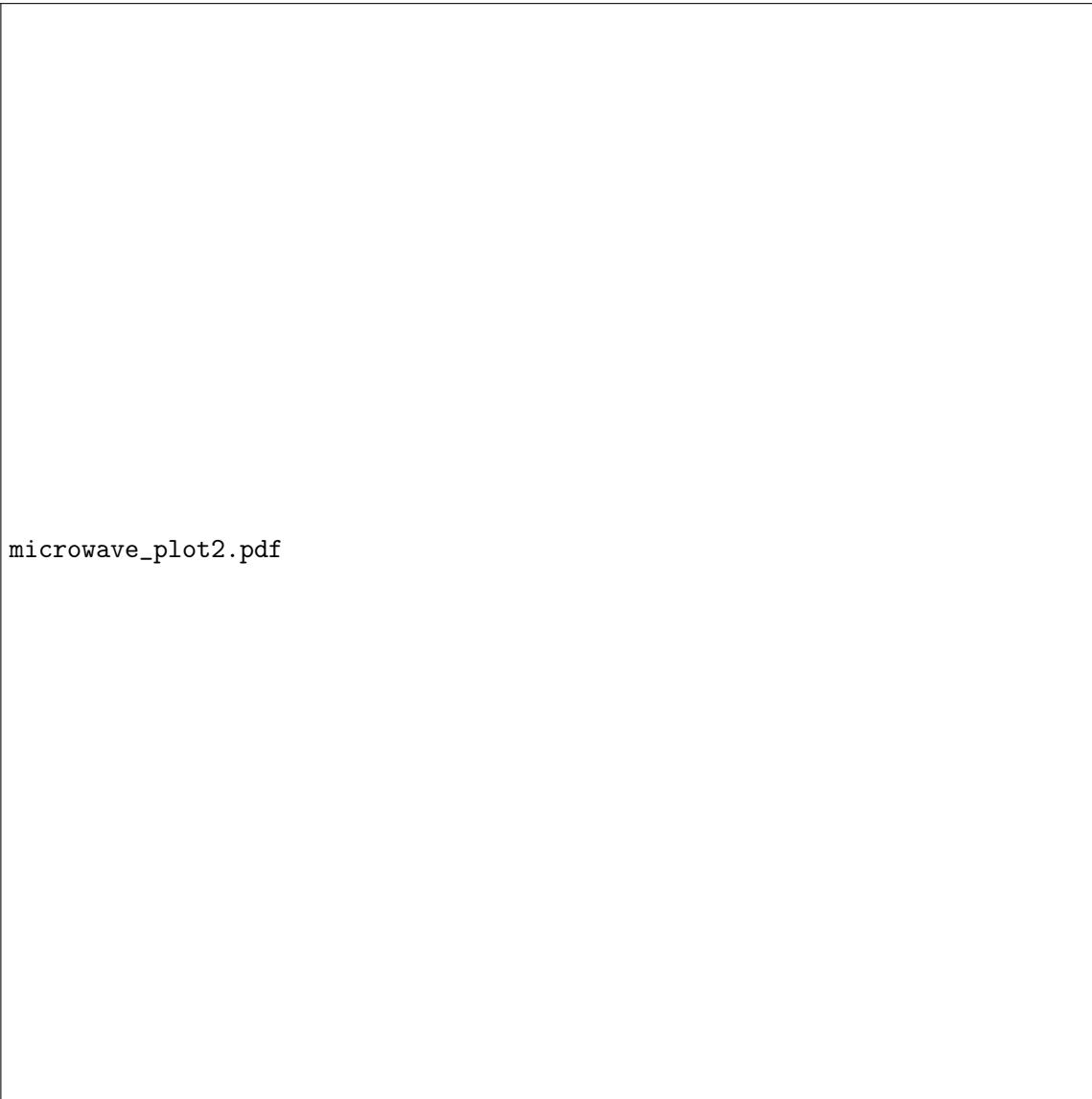
Figure 1: Primary analysis results.

3 Secondary Analysis

Figure 2: Secondary analysis comparison.

4 Parameter Study

microwave_plot3.pdf

Figure 3: Parameter sensitivity analysis.

5 2D Visualization

microwave_plot4.pdf

Figure 4: Two-dimensional field visualization.

6 Distribution Analysis

microwave_plot5.pdf

Figure 5: Statistical distribution analysis.

7 Time Series

microwave_plot6.pdf

Figure 6: Time series visualization.

8 Results Summary

9 Conclusions

This analysis demonstrates the computational approach to microwave.