

Building a Thesis in Bookdown and LaTeX, which can have a

Wrapped Title if Long

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in partial fulfillment of the requirements for the degree of

Master of Science

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**BYU Engineering**



## *Abstract*

**NEED** The abstract of a thesis should describe the motivation, objective, overall results, and central findings of the thesis. It may have multiple paragraphs if necessary.

Keywords: sensitivity analysis, transportation demand model, transportation planning



## *Acknowledgments*

*NEED* Students should acknowledge funding sources. They may also use the acknowledgment page to express appreciation for the committee members, friends or family who provided assistance in research, writing or technical aspects of the dissertation, thesis or selected project. Acknowledgements should be simple and in good taste.





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# 1

## *Introduction*

1.1 Problem Statement

1.2 Objectives





# 2

## *Literature Review*

- 2.1 Overview
- 2.2 Types of Uncertainty
  - 2.2.1 Model Uncertainty
  - 2.2.2 Input Uncertainty
  - 2.2.3 Parameter Uncertainty
- 2.3 Summary



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## *Sampling Methods*

- 3.1 Overview
- 3.2 Common Sampling Methods
  - 3.2.1 Monte Carlo Sampling
  - 3.2.2 Latin Hypercube Sampling
- 3.3 Method Comparison
- 3.4 Summary



# 4

## *Model Design and Methodology*

- 4.1 Overview
- 4.2 Transportation Demand Model
- 4.3 Sensitivity Analysis
- 4.4 Summary



# 5

## *Sensitivity Analysis Results*

- 5.1 Overview
- 5.2 Density Plots
- 5.3 Network Comparison
- 5.4 Summary





# 6

## *Conclusions*

- 6.1 Overview
- 6.2 Problem and Objective
- 6.3 Limitations and Further Research
- 6.4 Summary



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