

## TABLE OF CONTENTS

TITLE PAGE.....	i
APPROVAL SHEET .....	ii
DECLARATION OF ACADEMIC INTEGRITY .....	iii
PREFACE.....	v
TABLE OF CONTENTS.....	vi
LIST OF TABLES.....	viii
LIST OF FIGURES .....	ix
ABSTRACT.....	x
INTISARI .....	xi
CHAPTER I INTRODUCTION.....	1
1.1. Background .....	1
1.2. Problem Formulation .....	2
1.3. Research Objective.....	3
CHAPTER II LITERATURE REVIEW .....	7
2.1. Discrete Choice Model Studies.....	7
2.2. Structural Equation Modeling Studies .....	8
2.3. Theory of Planned Behavior Studies.....	9
2.4. High-Speed Rail Travel Studies.....	11
2.4.1. HSR studies in the international context.....	11
2.4.2. HSR studies in the Indonesian context .....	12
CHAPTER III THEORETICAL BACKGROUND .....	14
3.1. Discrete Choice Model.....	14
3.2. Mixed Logit Model .....	14
3.2.1. Estimation methods.....	15
3.2.2. Model specification and performance test .....	16
3.3. Theory of Planned Behavior .....	17
3.4. Structural Equation Modeling.....	19
3.4.1. Data requirements for SEM .....	20
3.4.2. Stages of modeling in SEM .....	22
3.5. Stated Preference.....	24
3.5.1. Selection of alternatives, attributes, and attribute levels .....	26

3.5.2.	Full factorial design .....	26
3.5.3.	Fractional factorial/orthogonal design .....	27
CHAPTER IV RESEARCH METHOD .....		28
4.1.	Study Area.....	28
4.2.	Research Design.....	30
4.2.1.	Data collection and sampling.....	31
4.3.	Questionnaire Design .....	32
4.3.1.	Traveler characteristics questionnaire .....	32
4.3.2.	Stated preference experiment design .....	34
4.3.3.	Psychological factors question.....	36
4.4.	Data Analysis .....	38
CHAPTER V ANALYSIS AND DISCUSSION .....		40
5.1.	Survey Data.....	40
5.2.	Discrete Choice Model.....	45
5.2.1.	Mixed logit model utilities.....	45
5.2.2.	Effects of traveler characteristics on mode choice .....	48
5.3.	Structural Equation Model .....	51
5.3.1.	Confirmatory factor analysis for the measurement model.....	51
5.3.2.	Structural model fit .....	54
5.3.3.	Overall model for HSR travel intention.....	57
5.4.	Policy Discussion .....	61
CHAPTER VI CONCLUSIONS AND RECOMMENDATIONS.....		65
6.1.	Summary of the Findings .....	65
6.2.	Recommendations for Future Study.....	66
REFERENCES .....		68
APPENDIX.....		76