

TABLE OF CONTENTS

APPROVAL PAGE	ii
VALIDATION PAGE.....	iii
DECLARATION PAGE.....	iv
DEDICATION PAGE.....	v
PREFACE	vii
TABLE OF CONTENTS	viii
LIST OF TABLES	xi
LIST OF FIGURES.....	xii
LIST OF ABBREVIATIONS	xv
INTISARI.....	xvi
<i>ABSTRACT</i>	xvii
CHAPTER 1 INTRODUCTION	1
1.1 Background	1
1.2 Problem Formulation and Research Questions	3
1.3 Objectives.....	3
1.4 Scopes	4
1.5 Research Benefits.....	5
1.6 Structure of Thesis	5
CHAPTER 2 LITERATURE REVIEW	6
2.1 Previous Studies.....	6
2.2 Previous Studies on Jakarta LRT	6
2.3 Previous Research on Walking Access Distance and Station Catchment Area.....	7
2.4 Research Novelty	9
CHAPTER 3 THEORETICAL FRAMEWORK	10
3.1 Train Ridership.....	10
3.2 Accessibility in Railway Transport.....	10
3.3 Accessibility Measurement Method.....	11
3.4 Walking Access Distance.....	11
3.5 Catchment Area.....	13
3.6 Likert Scale and Quantitative Descriptive Analysis	14
CHAPTER 4 RESEARCH METHOD.....	16



4.1 Research Location.....	16
4.2 Research Data and Research Instruments	16
4.3 Research Parameters	17
4.4 Research Procedure.....	17
4.5 Data Collection.....	19
4.5.1 Trip Origin–Destination (OD) Survey.....	19
4.6 Analytical Method.....	22
4.6.1 GIS Method and Polygon Delineation Method	22
4.6.2 Quantitative Descriptive Analysis	23
CHAPTER 5 RESULTS	25
5.1 The Socio-Demographic Characteristics of Jakarta LRT Passengers.....	25
5.1.1 Age	25
5.1.2 Gender	25
5.1.3 Occupation.....	26
5.1.4 Trip Purpose	26
5.1.5 Monthly Income	27
5.1.6 Transport mode toward / from LRT Station (access mode).....	28
5.2 The Walking Access Distances of Jakarta LRT Passengers to and from Stations	29
5.3 Walking Access Distance vs Socio-Demographic Characteristics	31
5.3.1 Walking Access Distance by Age Group	31
5.3.2 Walking Access Distance by Gender	31
5.3.3 Walking Access Distance by Occupation.....	32
5.3.4 Walking Access Distance by Trip Purpose	33
5.3.5 Walking Access Distance by Monthly Income	34
5.3.6 Walking Access Distance by Mode Used to Reach the Station.....	34
5.4 The Spatial Catchment Areas of Jakarta LRT Stations.....	35
5.4.1 The Station Catchment Area based on Walking Standards (ITDP)	35
5.4.2 The station Catchment Area based on Actual Walking Access Distance of Jakarta LRT Passengers	36
5.4.3 Comparison of Station Catchment Areas based on Actual Passenger Walking Distance vs Standard Walking Distance	37
5.5 The Level of Influence of Walking Distance on Decisions to Use Jakarta LRT Service.....	42

5.6 The Level of Influence of Walking Comfort on Decisions Choice of Transport	
Mode	43
5.7 Passenger Perception of Walking Comfort vs Socio-Demographic Characteristics.....	45
5.7.1 Passenger Perception of Walking Comfort by Age Group	45
5.7.2 Passenger Perception of Walking Comfort by Gender.....	46
5.7.3 Passenger Perception of Walking Comfort by Occupation.....	47
5.7.4 Passenger Perception of Walking Comfort by Trip Purpose.....	48
5.7.5 Passenger Perception of Walking Comfort by Monthly Income.....	49
5.7.6 Passenger Perception of Walking Comfort by Mode Used to Reach the Station	51
5.8 Passenger Perception of Walking Comfort across Walking Access Distance...	52
5.9 The Role of Jakarta LRT in Passengers' Travel Chains	53
CHAPTER 6 DISCUSSIONS.....	55
6.1 Walking Distance Characteristics between Jakarta LRT and Nanjing Metro Users: A Comparative Analysis.....	55
6.2 Projected Accessibility Improvement Opportunities	57
6.3 Walking Distance Distribution vs ITDP StandarAds: A Comparative Analysis	58
6.4 Spatial Catchment Area Pattern and the Improvement.....	59
6.5 Implications of Research Findings for Enhancing Station Accessibility.....	61
6.6 Strategic Recommendations.....	65
6.7 Analysis of Benefits and Drawbacks	98
6.7.1 Benefits.....	98
6.7.2 Drawbacks	98
CHAPTER 7 CONCLUSIONS.....	99
7.1 Conclusions.....	99
7.2 Recommendations	100
REFERENCES.....	102
APPENDIX 1 Questionnaire Design	109
APPENDIX 2 Walking Access Routes	114
APPENDIX 3 Station Catchment Area.....	117
APPENDIX 4 Strategic Recommendations	128