Co	-+	01	nt	C
(.0	III	CI	10	J

	Intr	oduction	xi
	17111	transportation system 48 wasters nothing	241
1	Hist	tory of cities and transportation	1
	1.1	How was the city formed? 1	
		1.1.1 What is a city? 1	
		1.1.2 Who created the city? 2	
		1.1.3 When was the city created? 3	
		1.1.4 Where are cities formed? 4	
		1.1.5 What kind of city was created? 5	
		1.1.6 Why are cities created? 8	
		1.1.7 How was the city created? 10	
	1.2	Road and traffic history 11	
		1.2.1 Road formation and role 11	
		1.2.2 Why are roads created? 12	
		1.2.3 A road is formed and the city spreads 14	
		1.2.4 Redesign of street space 15	
	Refe	rences 17	
2	Тур	es of urban structure	19
	2.1	Ideal model of a modern city 19	
		2.1.1 Ideal city model 19	
		2.1.2 Urban land use model 22	
		2.1.3 Sustainable city model 24	
	2.2	Ideal city and transportation model 26	
		2.2.1 City and transportation model	
		based on the automobile 26	
		2.2.2 The history of railway construction 30	

	Refe	erences	37	
3	Urb	an stru	cture in the next generation	41
	3.1	3.1.1 3.1.2	characteristics of Japanese cities compared to Western cities 41 Japanese city policy and compact city 42 Network-type compact city 45	
	3.2		rchy of urban structure and	
		transp	ortation system 48	
		3.2.1	A transportation system that supports next-generation cities 48	
		3.2.2	Transportation facility development and urban development strategy 51	
	Refe	rences	56 A THE SECTION OF T	
4	Lan	d use a	nd transportation	57
	4.1	Interre	elationship between land	
		use an	d transportation 57	
		4.1.1	Land use and transportation 57	
		4.1.2	Factors forming automobile-dependent cities and their countermeasures 59	
	4.2	ALCOHOLD TO THE REAL PROPERTY.	ation of land-use planning	
			ansportation planning 61	
		4.2.1	Relationship between land-use planning and transportation planning 61	
		4.2.2	Population density and traffic density 63	
		4.2.3	Which comes first, land use or transportation 65	
	4.3	Policy	to ensure consistency between	
		land u	se and transportation 67	
		4.3.1	Land use and transportation	
			integration policies in city planning 67	
		4.3.2	Direct and indirect public intervention 68	
		4.3.3	Traffic assessment 71	

Railway development model 32 Transit-Oriented Development 35

2.2.3 2.2.4

	4.4	Towar	rd new location guidance measures 72	
			Location management 72	
		4.4.2	Land use and transportation	
			integration strategy 74	
	Refe	rences	76	
5	Con	sider t	ransportation based on the city	79
	5.1	What	is desirable transportation? 79	
		5.1.1	Transportation as derived demand 79	
		5.1.2	Academic fields related to transportation 80	
	5.2	Trans	portation planning 81	
		5.2.1	Traffic survey 81	
		5.2.2	Traffic demand forecast 82	
		5.2.3	Challenges in traffic demand forecasting 84	
		5.2.4	Comprehensive transportation system 86	
		5.2.5	Traffic management 88	
	5.3	Transf	bortation engineering 89	
		5.3.1	Understanding traffic phenomena 89	
		5.3.2	Traffic simulation 91	
		5.3.3	Congestion countermeasures 92	
	5.4	Traffic	c safety 94	
		5.4.1	Situation and cause of traffic accident 94	
		5.4.2	Analysis of traffic accidents 95	
		5.4.3	Traffic safety measures 97	
	Refer	rences	99 T.S.T. Santananian and Mariana E. T.S.T.	
5	Con	sider ci	ities based on the transportation	101
	6.1	The es	sence of transportation 101	
		6.1.1	Movement from the perspective	
			of psychology 101	
		6.1.2	Movement from the perspective	
			of economics 103	
		6.1.3	Transportation as a primary demand 105	
	6.2	Transp	port-based city planning 106	
		6.2.1	What is the transport-based	
			city planning? 106	
		6.2.2		
			city planning 107	

		6.2.3	Example of transport-based city planning 109		
	63	Health	b-based city planning 110		
	0.5		City and health 110		
			Mobility in healthcare 113		
			Walking distance and utility 114		
	6.4		sm and community design 115		
	0		Tourism and transportation 115		
			Sustainable tourism and		
		02	community development 117		
		643	Methods of tourism-based city planning 119		
	Refe	rences			
7	Adv	anced t	transport	123	
	7.1	The bi	irth of advanced transport 123		
		7.1.1			
		7.1.2	0		
			What is the advanced private transport? 127		
	7.2		ole of advanced transport 129		
		7.2.1			
			and advanced transport 129		
		7.2.2	City planning and advanced transport 130		
	7.3	Challe	enges in introducing and		
			oting advanced transport 132		
			Barriers to the introduction		
			of advanced transport 132		
		7.3.2			
			advanced transport 135		
	7.4	[1] 전 [1] 2 : 2 : 2 : 2 : 2 : 2 : 2 : 2 : 2 : 2			
		7.4.1	Road space for advanced		
			public transport 136		
		7.4.2	Road space for autonomous cars 137		
			A scientific approach		
			to implementation 140		
	Refer	rences	143		
8	Citie	s and l	ogistics systems	145	
	8.1	Logist	ics planning in cities 145		

-			Definition of logistics and its function 145	
		8.1.1	Definition of togistics and its function 145	
		8.1.2	Trade and physical distribution 147	
		8.1.3	City and distribution channel 148	
	8.2	The d	ifference between transportation	
		and p	hysical distribution 150	
		8.2.1	Primary and derived demand of	
			transportation and physical distribution 150	
		8.2.2	Spatial and temporal movement 150	
		8.2.3		
			and physical distribution 152	
	8.3	City p	lanning and physical distribution 154	
		8.3.1	Hierarchy of transportation	
			and physical distribution 154	
		8.3.2	Linking transportation and	
			physical distribution planning 155	
		8.3.3	Last mile transportation and delivery 158	
		8.3.4	Transportation and physical	
			distribution in the future 160	
	Refe	rences	163	
	Appe	endix 1	63	
)	City	planni	ing in cyberspace	165
	9.1	Using	ICT in city planning 165	
		9.1.1	BANG TO THE PROPERTY OF THE P	
			communication technology 165	
		9.1.2		
			and logistics planning 166	
		9.1.3	City planning with ICT 170	
	9.2	Urban	models in cyberspace 173	
		9.2.1	Smart city 173	
		9.2.2	Smart cities and compact cities 175	
	9.3	Propos	sals for a new urban model that	
			physical and cyberspaces 176	
		9.3.1	Hierarchy in physical and cyberspace 176	
		9.3.2		
		9.3.3	0	
			the city of the future 182	
	Refer	ences 1		

)	Mar	agement for future city planning	187
	10.1	Decision-making in city planning 187	
		10.1.1 Uncertainty in city planning 187	
		10.1.2 City planning and consensus building 188	
	10.2	Evidence-based policy making 191	
		10.2.1 How to seek evidence in city planning 191	
		10.2.2 City planning and city analysis 193	
		10.2.3 City planning and artificial intelligence 196	
	10.3	City planning in moderation 197	
		10.3.1 City planning entity 197	
		10.3.2 The planner's philosophy 198	
		10.3.3 Goals in the plan 201	
	Refer	rences 202	
	Inde	x 27 L main and the moderate of the contract o	205