



# Contents

<i>List of photographs</i>	ix
<i>List of figures</i>	x
<i>List of contributors</i>	xiii
<i>Preface</i>	xiv
<b>Chapter 1 Transportation and geography</b>	<b>1</b>
<i>CONCEPTS: 1 What is transport geography?</i>	1
2 Transportation and space	9
3 Transportation and commercial geography	17
4 The geography of transportation networks	22
<i>CASE STUDY: Strategic maritime passages</i>	30
<b>Chapter 2 Transportation and the spatial structure</b>	<b>42</b>
<i>CONCEPTS: 1 Historical geography of transportation: the emergence of mechanized systems</i>	42
2 Historical geography of transportation: the setting of global systems	58
3 Transport and spatial organization	65
4 Transport and location	72
5 Future transportation	77
<i>CASE STUDY: High speed rail systems</i>	83
<b>Chapter 3 Transportation modes</b>	<b>89</b>
<i>CONCEPTS: 1 A diversity of modes</i>	89
2 Intermodal transportation	110
3 Passengers and freight: complementarity and competition	120
<i>CASE STUDY: Information technologies and mobility</i>	122
<b>Chapter 4 Transportation terminals</b>	<b>127</b>
<i>CONCEPTS: 1 The function of transport terminals</i>	127
2 The location of terminals	134
3 Transport terminal governance	149
<i>CASE STUDY: Inland ports</i>	152
<b>Chapter 5 International trade and freight distribution</b>	<b>158</b>
<i>CONCEPTS: 1 Transportation, globalization and international trade</i>	158
2 Commodity chains and freight transportation	166

3	<i>Logistics and freight distribution</i>	173
	<i>CASE STUDY: Commodity chain analysis: the cold chain</i>	183
<b>Chapter 6</b>	<b>Urban transportation</b>	<b>188</b>
CONCEPTS: 1	<i>Transportation and the urban form</i>	188
2	<i>Urban land use and transportation</i>	198
3	<i>Urban mobility</i>	206
4	<i>Urban transport problems</i>	212
CASE STUDY:	<i>City logistics</i>	219
<b>Chapter 7</b>	<b>Transportation and the economy</b>	<b>226</b>
CONCEPTS: 1	<i>Transportation and economic development</i>	226
2	<i>Transport costs</i>	236
3	<i>Transport supply and demand</i>	243
CASE STUDY:	<i>The cruise industry</i>	249
<b>Chapter 8</b>	<b>Transport, energy and environment</b>	<b>255</b>
CONCEPTS: 1	<i>The environmental impacts of transportation</i>	255
2	<i>Transportation and energy</i>	261
3	<i>Transport and sustainability</i>	269
CASE STUDY:	<i>Green logistics</i>	274
<b>Chapter 9</b>	<b>Transport planning and policy</b>	<b>280</b>
CONCEPTS: 1	<i>The nature of transport policy</i>	280
2	<i>Transport planning</i>	285
3	<i>Transport safety and security</i>	291
4	<i>Transportation and disasters</i>	294
CASE STUDY:	<i>Transportation and pandemics</i>	299
<b>Chapter 10</b>	<b>Methods in transport geography</b>	<b>304</b>
METHODS: 1	<i>Methods in transport geography</i>	304
2	<i>Graph theory: definition and properties</i>	307
3	<i>Graph theory: measures and indices</i>	312
4	<i>Geographic Information Systems for Transportation (GIS-T)</i>	317
5	<i>The notion of accessibility</i>	322
6	<i>Network data models</i>	328
7	<i>Transport technical and economic performance indicators</i>	333
8	<i>The Gini coefficient</i>	337
9	<i>Spatial interactions and the gravity model</i>	340
10	<i>Market area analysis</i>	345
11	<i>The policy process</i>	351
	<b>Conclusion: Issues and challenges in transport geography</b>	<b>356</b>
	<i>Glossary</i>	364
	<i>Index</i>	396