Green Logistics and Transportation
A Sustainable Supply Chain Perspective
Contents

1 The Role of Green Logistics and Transportation in Sustainable Supply Chains
   Behnam Fahimnia, Michael G.H. Bell, David A. Hensher and Joseph Sarkis
   1

Part I Green Logistics Network

2 Behavioural Influences on the Environmental Impact of Collection/Delivery Points
   Andrew T. Collins 15

3 Dynamic Supply Chain Greening Analysis
   Armin Jabbarzadeh and Behnam Fahimnia 35

4 City Logistics for Sustainable and Liveable Cities
   Eiichi Taniguchi 49

Part II Green Land Transportation

5 Green Transport Fleet Appraisal
   Chunguang Bai, Behnam Fahimnia and Joseph Sarkis 63

6 The Inventory Pollution-Routing Problem Under Uncertainty
   Hooman Malekly 83

7 Vehicle Orientated Initiatives for Improving the Environmental Performance of Urban Freight Systems
   Russell G. Thompson 119
8 Greening Demand Chains in Urban Passenger Transport: 
Emissions Saving from Complex Trip Chains. .......................... 131 
Chinh Ho and David A. Hensher

Part III Green Air and Water Transportation

9 A Review of the Literature of Green Ports 
and Maritime Logistics .................................................. 149 
Hoda Davarzani, Behnam Fahimnia, Michael G.H. Bell 
and Joseph Sarkis

10 Economic and Environmental Trade-Offs in Water 
Transportation ............................................................. 159 
Thalis Zis, Panagiotis Angeloudis and Michael G.H. Bell

11 The Economic and CO₂ Emissions Performance in Aviation: 
An Empirical Analysis of Major European Airlines ............... 175 
Chikage Miyoshi and Rico Merkert

Conclusion

12 The Future of Green Logistics and Transportation .............. 193 
Behnam Fahimnia, Michael G.H. Bell, David A. Hensher 
and Joseph Sarkis