## Contents

About the author viii  
Preface xiii  
Publisher’s acknowledgements xiv  

1 Logistics, the supply chain and competitive strategy  1  
Supply chain management is a wider concept than logistics  2  
Competitive advantage  4  
The supply chain becomes the value chain  10  
The mission of logistics management  11  
The supply chain and competitive performance  13  
The changing competitive environment  14  

2 Delivering customer value  27  
The marketing and logistics interface  28  
Delivering customer value  29  
What is customer service?  31  
The impact of out-of-stock  33  
Customer service and customer retention  36  
Market-driven supply chains  39  
Defining customer service objectives  43  
Setting customer service priorities  47  
Setting service standards  51  

3 Going to market  57  
Distribution channels are value delivery systems  58  
Innovation in the distribution channel  61  
The omni-channel revolution  64  
Omni-channel retailing  66  

4 Measuring logistics costs and performance  69  
Logistics and the bottom line  70  
Logistics and shareholder value  73  
Logistics cost analysis  78  
The concept of total cost analysis  79  
Understanding the cost-to-serve  82  
Customer profitability analysis  84  
Direct product profitability  90  
Cost drivers and activity-based costing  91
5 Matching supply and demand 95
   The lead-time gap 95
   Improving visibility of demand 97
   The supply chain fulcrum 99
   Forecast for capacity, execute against demand 101
   Demand management and planning 101
   Collaborative planning, forecasting and replenishment 106

6 Creating the responsive supply chain 111
   Using the volume/variability matrix 115
   Product ‘push’ versus demand ‘pull’ 117
   The Japanese philosophy 122
   The agile supply chain 123
   The foundations of agility 126
   A routemap to responsiveness 130

7 Strategic lead-time management 135
   Time-based competition 135
   The concept of lead-time 139
   Logistics pipeline management 143
   Reducing logistics lead-time 147

8 The synchronous supply chain 155
   The extended enterprise and the virtual supply chain 156
   The role of information in the virtual supply chain 158
   Laying the foundations for synchronisation 161
   ‘Quick response’ logistics 163
   Production strategies for QR 166
   Logistics systems dynamics 167

9 Complexity and the supply chain 173
   The sources of supply chain complexity 174
   The cost of complexity 180
   Product design and supply chain complexity 180
   Mastering complexity 181

10 Managing the global pipeline 185
   The trend towards globalisation in the supply chain 187
   Gaining visibility in the global pipeline 192
   Financing global supply chains 194
   Organising for global logistics 194
   Thinking global, acting local 199
   The future of global sourcing 200
11 Service logistics  203
   What is a service?  203
   Buying performance  204
   The service dominant logic  205
   The trend to ‘servitisation’  205
   Implications of servitisation for logistics  207
   The critical role of capacity  207
   Service supply chain processes  210
   Managing the service supply chain  212

12 Managing risk in the supply chain  215
   Why are supply chains more vulnerable?  216
   Understanding the supply chain risk profile  219
   Managing supply chain risk  224
   Achieving supply chain resilience  232

13 The era of network competition  237
   The new organisational paradigm  238
   Collaboration and trust in the supply chain  240
   Reducing costs through collaborative working  243
   ‘Co-opetition’ – co-operating with competitors  245
   Managing the supply chain as a network  246
   Supply chain orchestration  247
   From 3PL to 4PL™  249
   The last word  250

14 Overcoming the barriers to supply chain integration  253
   Creating the logistics vision  254
   The problems with conventional organisations  254
   Developing the logistics organisation  258
   Logistics as the vehicle for change  262
   Benchmarking  263

15 Creating a sustainable supply chain  269
   The triple bottom line  269
   Greenhouse gases and the supply chain  271
   Reducing the transport-intensity of supply chains  273
   Beyond the carbon footprint  274
   Reduce, re-use, re-cycle  277
   The impact of congestion  279
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>The supply chain of the future</td>
<td>283</td>
</tr>
<tr>
<td></td>
<td>Emerging mega-trends</td>
<td>284</td>
</tr>
<tr>
<td></td>
<td>Shifting centres of gravity</td>
<td>285</td>
</tr>
<tr>
<td></td>
<td>Supply chain governance and compliance</td>
<td>286</td>
</tr>
<tr>
<td></td>
<td>The need for adaptability</td>
<td>287</td>
</tr>
<tr>
<td></td>
<td>Seeking structural flexibility</td>
<td>288</td>
</tr>
<tr>
<td></td>
<td>2020 vision</td>
<td>291</td>
</tr>
<tr>
<td></td>
<td>Waste in the supply chain</td>
<td>291</td>
</tr>
<tr>
<td></td>
<td>The New Industrial Revolution</td>
<td>292</td>
</tr>
<tr>
<td></td>
<td>Seven major business transformations</td>
<td>294</td>
</tr>
<tr>
<td></td>
<td>The implications for tomorrow's logistics managers</td>
<td>296</td>
</tr>
<tr>
<td></td>
<td>Index</td>
<td>301</td>
</tr>
</tbody>
</table>