

# Contents

<i>List of Figures</i>	xii
<i>List of Tables</i>	xv
<i>List of Boxes</i>	xvii
<i>Preface</i>	xix
<i>Acknowledgments</i>	xxi

<b>1 The city and nature</b>	<b>1</b>
The intellectual background	3
The city as ecosystem	4
Nature and the city	9
Urban sustainability	12
A new approach	13
Organization of the book	15
<b>Part I The urban environment in history</b>	<b>19</b>
<b>2 The pre-industrial city</b>	<b>21</b>
The first cities	21
Urban design	27
Disease and cities	40
Cities and pollution controls	50
Conclusions	54



<b>3</b>	<b>The industrial city</b>	<b>57</b>
	Pollution in Coketown 58	
	Reforming the industrial city 71	
	The urban public parks movement 80	
	Garden cities 89	
	<b>Part II The contemporary urban context</b>	<b>95</b>
<b>4</b>	<b>Global urban trends</b>	<b>97</b>
	Rapid urban growth 97	
	The rise of big cities 103	
	The development of giant urban regions 111	
<b>5</b>	<b>The postindustrial city</b>	<b>121</b>
	Reimagining the city 125	
	Creating the postindustrial urban landscape: the example of waterfront redevelopment 127	
	Cleaning up the toxic environment 131	
<b>6</b>	<b>The developing city</b>	<b>143</b>
	Megacity 143	
	The industrial city 146	
	The greening city 153	
	Slum city 155	
	Conclusions 164	
	<b>Part III Urban physical systems</b>	<b>167</b>
<b>7</b>	<b>Urban sites</b>	<b>169</b>
	On the beach 173	



Cities in the desert	176
City on the delta	182
Dhaka: another city on a delta	188
<b>8 Hazards and disasters</b>	<b>194</b>
Environmental hazards	198
The city and disaster: a case study of Hurricane Katrina	213
Social hazards and vulnerability	218
The resilient city	223
Conclusion	226
<b>9 Urban political ecology</b>	<b>229</b>
Cities as circulation of flows	231
New urban ecological imaginaries	236
Urban footprints	240
Natural capital	248
Biophysical cycles and social processes	249
Cities as biotic communities	251
Ecologies of a model city region	254
<b>Part IV Urban environmental issues</b>	<b>263</b>
<b>10 The environmental revolution: a brief context</b>	<b>265</b>
A movement galvanizes	265
A global environmental revolution	271
Greening cities	277
Resistance	279



<b>11</b>	<b>Water</b>	<b>281</b>
	Water in developed cities	281
	Water in developing cities	306
	Conclusions	314
<b>12</b>	<b>Air</b>	<b>317</b>
	Air pollution in the US	317
	Air pollution in developing cities	333
	Air quality trends in developing cities	344
	Conclusions	349
<b>13</b>	<b>Climate change</b>	<b>351</b>
	Climate science: the basic facts	351
	Impacts of climate change	357
	Responding to climate change: mitigation and adaptation	364
	Conclusions	378
<b>14</b>	<b>Garbage</b>	<b>379</b>
	Waste trends in the US	379
	The garbage crisis?	382
	The environmental hazards of landfills	388
	A consuming mentality	390
	Reducing waste	392
	Incinerators: the solution to garbage?	396
	Waste in the developing world	401
	Conclusion	413



<b>Part V (Re)aligning urban-nature relations</b>	<b>415</b>
<b>15 Race, class and environmental justice</b>	<b>417</b>
Urban environments of inequality	417
Environmental justice	424
Urban environments and social difference	429
Healthy cities	431
Conclusions	434
<b>16 Urban sustainability</b>	<b>436</b>
Intellectual roots of sustainability	436
Defining sustainability	439
Theories of sustainability	446
Practicing sustainability	449
Planning for sustainability	457
Implementing sustainability	461
Conclusions	480
<i>Postscript</i>	483
<i>Notes</i>	484
<i>Index</i>	517