

# Contents

Introduction	vii
<i>The Cities and Technology series</i>	vii
Definitions	vii
<i>American cities and technology</i>	ix
<i>Conventions and acknowledgements</i>	x
References	xi
<i>Conversion table: imperial/metric units</i>	xi
<i>Abbreviations of US states</i>	xii
<b>1 The growth of cities</b>	
BY GERRYLYNN K. ROBERTS	1
1.1 <i>The pattern of urbanization</i>	1
1.2 <i>Periodization of city development?</i>	7
1.3 <i>Characteristics of US cities</i>	9
1.4 <i>Industrialization and urbanization</i>	10
1.5 <i>Technology and the development of cities</i>	11
References	12
<b>2 Transport and the nineteenth-century city</b>	
BY GERRYLYNN K. ROBERTS	14
2.1 <i>The role of government</i>	15
2.2 <i>Intercity transport</i>	19
2.3 <i>Intracity transport</i>	28
2.4 <i>Mass transport and the late nineteenth-century city</i>	41
Extracts	43
References	51
<b>3 Transport in the twentieth-century city – automobility</b>	
BY GERRYLYNN K. ROBERTS	53
3.1 <i>Introduction</i>	53
3.2 <i>The emergence of the motor car</i>	54
3.3 <i>Good roads</i>	58
3.4 <i>Urban car ownership</i>	60
3.5 <i>Accommodating the motor car in the city</i>	61
3.6 <i>The motor car and suburbanization</i>	73
3.7 <i>The motor car and public transport</i>	75
3.8 <i>The lorry</i>	80
3.9 <i>Automobility</i>	82
Extracts	83
References	90
<b>4 Building types and construction</b>	
BY GERRYLYNN K. ROBERTS	93
4.1 <i>Housing</i>	93
4.2 <i>The skyscraper</i>	104
4.3 <i>Electricity and buildings</i>	119
4.4 <i>Buildings and the motor car</i>	125
4.5 <i>Buildings of tomorrow – or yesterday?</i>	131
Extracts	132
References	138

<b>5 Technologies of water, waste and pollution</b>	<b>141</b>
BY GERRYLYNN K. ROBERTS	141
5.1 <i>Introduction</i>	141
5.2 <i>Water supply</i>	141
5.3 <i>Drainage and sewerage</i>	147
5.4 <i>Refuse disposal and street cleaning</i>	154
5.5 <i>Industrial pollution</i>	160
5.6 <i>Water, waste and pollution in the development of the city</i>	164
<i>Extracts</i>	165
<i>References</i>	171
<b>6 Technology and the governance of cities</b>	<b>173</b>
BY GERRYLYNN K. ROBERTS	173
6.1 <i>Introduction</i>	173
6.2 <i>Street lighting</i>	173
6.3 <i>Coping with fire</i>	176
6.4 <i>Planning</i>	181
6.5 <i>Summary</i>	190
<i>Extracts</i>	190
<i>References</i>	199
<b>7 The 'car crisis' in the late twentieth-century city</b>	<b>201</b>
BY PHILIP STEADMAN	201
7.1 <i>Introduction</i>	201
7.2 <i>Changes in the density of cities in the twentieth century</i>	202
7.3 <i>Growth in car use in the USA and Britain</i>	208
7.4 <i>Transport technology and urban form</i>	212
7.5 <i>Growth in world mobility</i>	217
7.6 <i>Motor vehicles and photochemical smog</i>	222
7.7 <i>The contribution of transport fuels to global warming</i>	225
7.8 <i>Getting people out of their cars</i>	228
<i>References</i>	232
<b>8 Telecommunications and cities since 1840</b>	<b>234</b>
BY PHILIP STEADMAN	234
8.1 <i>Introduction</i>	234
8.2 <i>'What hath God wrought?' The electric telegraph</i>	237
8.3 <i>'Watson, are you there?' Bell and the telephone</i>	242
8.4 <i>The telephone and the office building</i>	247
8.5 <i>The telephone: an agent of urban dispersal or of urban concentration?</i>	248
8.6 <i>Growth in global telecommunications and information technology after the Second World War</i>	249
8.7 <i>The death of distance prematurely announced?</i>	253
<i>References</i>	258
<b>Index</b>	<b>261</b>
<b>Acknowledgements</b>	<b>268</b>