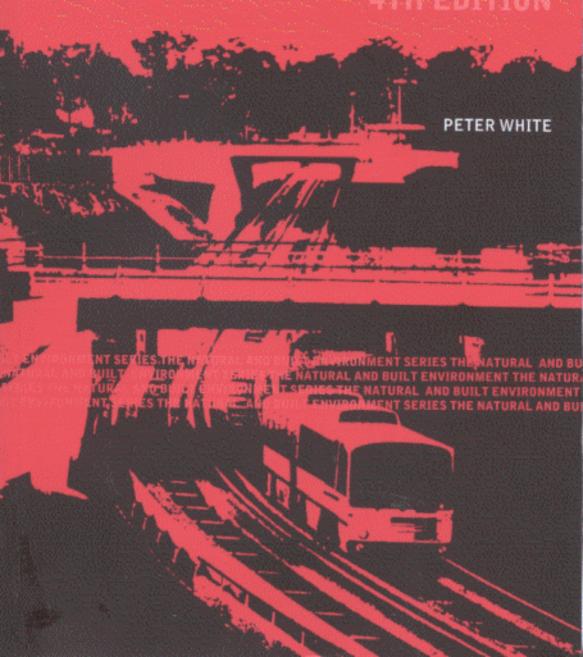
PUBLIC TRANSPORT: ITS PLANNING, MANAGEMENT AND OPERATION



Contents

	Preface Acknowledgements	i: x
1	Organization and control of transport in the British Isles Great Britain and Northern Ireland 1 The Irish Republic 5	:
	Public spending in Great Britain 5	
	The operating industries in the United Kingdom 7	
	Regulation 11	
	Other organizations 13	
2	The role of public transport	1
	The overall pattern 17	
	Definitions 17	
	Comparisons of bus and rail trip rates with the NTS 20	
	Composition of the rail and bus markets 21	
	Use of the 'trips per head' measure 21	
	Variations in public transport use by age and sex 22	
	Variations by time of day, and day of week 24	
	The 'market gearing' concept 25	
	The journey to work 27	
	Other journey purposes 27	
	Trip chaining 28	
	Time spent in travel 29	
	Changes in individuals' travel over time 29	
	Taxis and private hire cars 30	
	Public transport and car use 31	•
	The London case 32	
	Aggregate forecasting of public transport demand 33	
	Longer-term elasticities 37	
	Policy implications 20	

vi (Contents	
	The technology of bus and coach systems Design of the vehicle 40	40
	Buses on road networks 53	
	Conclusion 60	
4	Urban railways and rapid transit systems	62
	Early developments 62	
	Types of urban rail systems 63	
	Basic system characteristics 65	
	Current rail developments in Britain 76	
5	Network planning	. 80
_	Typical structures 80	
	Urban form and land use 81	
	Design of public transport networks 83	
	Park and ride (P & R) 94	
	Public transport in low-density situations 97	
	Conclusion 98	
	Appendix 98	
6	Costing and cost allocation methods	101
Ū	The structure of costs: classification 101	
	Cost allocation methods 106	
	Rail cost allocation 110	
	Statistical models of cost structures 112	
7	Pricing theory and practice	114
•	Basic concepts 114	
	Peak costing 117	•
	Price elasticity 120	
	The form of the demand curve, and its implications 124	
	The travelcard concept 128	
	Is there a case for premium pricing? 131	
	Fare collection methods 133	
	Conclusion 137	1-
	8 Rural public transport	. 139
	Defining 'rural' 139	
	Public transport's market share and composition 141	
	Types of service provided 142	
	The 'rural transport problem' 144	

\sim .		
Cont	ents	V11

~	Improving 'conventional' public transport 145	
	Alternative 'solutions' to the rural transport problem 147 Impact of the 1985 Transport Act and subsequent policies 151	
9	Intercity public transport	155
	Introduction 155	
	The present long-distance market in Britain 155	
	Current patterns and recent trends within each mode 159	
	Developments in technology 171	
	The current network structure and policy issues 177	
10	Current policy issues in Britain	180
	Privatization 180	
	Deregulation 182	
	Competition policy 182	
	Experience in the bus industry 184	
	Rail privatization outcomes 187	
	The 1998 White Paper and the Transport Act 2000 189	
	Concessionary fares 190	
	School travel 192	
	The overall direction of policy 193	
11	Policy in the long run	196
	What is the role of 'planning'? 196	
	Transport and 'choice' 198	
	Population trends 200	
	Energy 200	
	Taxation, public expenditure and equity 202	
	The 'sustainability' issue 204	
	The role of the European Union 205	
	'Mobility' or 'access'? 206	
	Index	209