

# Contents

Notes on the contributors		vii	
Preface		ix	
Tables		x	
1	Introduction	<i>Jean-Philippe Barde and Kenneth Button</i>	1
2	The United States	<i>Elizabeth Deakin</i>	19
3	The Federal Republic of Germany	<i>Ulrich Blum and Werner Rottengatter</i>	61
4	France	<i>Claude Lamure and Emile Quinet</i>	93
5	The Netherlands	<i>Jaap Vleuget, Henk van Gent and Peter Nijkamp</i>	121
6	Greece	<i>Maria Giaoutzi and Leonidas Damianides</i>	157
7	Italy	<i>Marco Ponti and Maria Rosa Vittadini</i>	177
	Index		206

# Tables

3.1	Road Network (1,000 km)	62
3.2	Pollution and Traffic Safety: Sample Survey of Households in the FRG	63-64
3.3	Disamenities from Noise: Results of a Survey	65
3.4	Pollutant Emissions in the FRG by Groups of Emission Sources	66-67
3.5	Tax Deductions for Cars According to EC-Limit Values	71
3.6	Tax Allowances for Driving to Work	78
3.7	Fuel Taxes in Germany (DM per Litre)	80
3.8	Budget Effects (1985 and 1990)	81
3.9	Budget Differentials (1985-90)	82
3.10	Data on Accidents in Germany (Selected Years)	86
3.11	Accidents Resulting from Tax Relief Schemes (1987)	88
4.1	Modal Split for Domestic Transport (1987)	94
4.2	Financial Transfers in the Transport Section	97
4.3	Modal Split	100
4.4	Social Cost of Transport as a Percentage of GDP (Mean of Selected Countries)	102
5.1	Growth of Domestic Passenger Transport (1970-87)	123
5.2	Development of Domestic Freight Transport (1970-87)	124

5.3	The Transport Sector in the Dutch Economy	125
5.4	Air Pollution by Road Transportation (1970–87)	126
5.5	Contribution of Road Transport to Total Air Pollution, in Percentages	127
5.6	Estimated Costs of Air Pollution per Year	127
5.7	Diesel-specific Air Pollution, Diesel Use and Traffic Performance and expected Growth	139–40
5.8	Emissions of Passenger Vehicles in Grams/kilometres (1986)	140
5.9	Breakdown of Fuel Prices in the Netherlands	141
5.10	Houses with Noise Levels Equal to or Greater than 66 dB(A), caused by Road Vehicles	144
5.11	Houses with Noise Levels Equal to or Greater than 65 dB(A), caused by Railway Traffic	144
5.12	Noise: Legal Limits	145
6.1	Passenger Car Price Analysis	162
6.2	Air Pollution in Athens by Source and Pollutant	169
6.3	Pollution Levels in the Athens Basin and the Thriasson Field, by Pollutant (1984)	170
6.4	Level of Pollutant Triggering Emergency Action in Athens	170
6.5	Effects of Restraint Measures on Vehicle-Hours and Vehicle-km/H	172
6.6	Effects on Traffic Composition (Mean Percentage)	173
6.7	Environmental Effects	175
7.1	Traffic Modal Split (1976 and 1986)	179
7.2	Public Expenditure on the Transport Sector by Subsectors (1986)	182
7.3	The Fiscal Burden on Transportation (1986)	183

7.4	Public Transport Subsidies (1986)	186
7.5	Road Expenditures (1986)	189
7.6	Total Costs (1986)	189
7.7	Fiscal Revenues (1986)	189
7.8	Expenditures – Revenues Ratios (1986)	190
7.9	Revenues from Traffic Violations (1988)	195
7.10	Fatal Accidents by Type of Accident and Vehicles Involved (1986)	196
7.11	Noise Pollution in Italian Metropolitan Areas (1988)	200
7.12	Fuel Consumption and Pollutant Emissions in the Province of Milan (1984)	201
7.13	Estimates of Total Emissions of Air Pollutants	202