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Nota di contenuto	MODELLINGTRANSPORT; Contents; About the Authors; Preface; 1 Introduction; 1.1 Transport Planning and Modelling; 1.1.1 Background; 1.1.2 Models and their Role; 1.2 Characteristics of Transport Problems; 1.2.1 Characteristics of Transport Demand; 1.2.2 Characteristics of Transport Supply; 1.2.3 Equilibration of Supply and Demand; 1.3 Modelling and Decision Making; 1.3.1 Decision-making Styles; 1.3.2 Choosing Modelling Approaches; 1.4 Issues in Transport Modelling; 1.4.1 General Modelling Issues; 1.4.2 Aggregate and Disaggregate Modelling; 1.4.3 Cross-section and Time Series 1.4.4 Revealed and Stated Preferences 1.5 The Structure of the Classic Transport Model; 1.6 Continuous Transport Planning; 1.7 Theoretical Basis Versus Expedience; 2 Mathematical Prerequisites; 2.1 Introduction; 2.2 Algebra and Functions; 2.2.1 Introduction; 2.2.2 Functions and Graphs; 2.2.3 Sums of Series; 2.3 Matrix Algebra; 2.3.1 Introduction; 2.3.2 Basic Operations of Matrix Algebra; 2.4 Elements of Calculus; 2.4.1 Differentiation; 2.4.2 Integration; 2.4.3 The Logarithmic and Exponential Functions; 2.4.4 Finding Maximum and Minimum

Values of Functions

2.4.5 Functions of More Than One Variable 2.4.6 Multiple Integration;
2.4.7 Elasticities; 2.4.8 Series Expansions; 2.5 Elementary Mathematical
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3.1.2 Conceptualisation of the Sampling Problem; 3.1.3 Practical
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3.2.1 Different Types of Error; 3.2.2 The Model Complexity/Data
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3.3.1 Practical Considerations 3.3.2 Types of Surveys; 3.3.3 Survey Data
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4.7.2 Geographic Stability

Sommario/riassunto

Already the market leader in the field, Modelling Transport has become still more indispensable following a thorough and detailed update. Enhancements include two entirely new chapters on modelling for private sector projects and on activity-based modelling; a new section on dynamic assignment and micro-simulation; and sizeable updates to sections on disaggregate modelling and stated preference design and analysis. It also tackles topical issues such as valuation of externalities and the role of GPS in travel time surveys. Providing unrivalled depth and breadth of coverage, each topic
