

# Transport

**Book subject disciplines:**

Climate Change and the Environment

Survey Methods

Systems Planning and Process

Traffic and Transport Safety

Transport Theory

# Transport



The only specialist collection of books in this specific field, available only in print, addressing the most topical issues facing transportation professionals and government departments worldwide.

## Climate Change and the Environment

Book

ISBN: 9780080447094

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## Building Blocks for Sustainable Transport: Obstacles, Trends, Solutions

### Editors

**Adriaan Perrels**  
Government Institute for  
Economic Research VATT,  
Finland

**Veli Himanen and Martin  
Lee-Gosselin**  
Université Laval, Canada

This book argues that the issues surrounding sustainable transport constitute a new – post-modern – phase in transport policy and management. Achieving sustainable transport requires more than “optimal” management of congestion and the effects on public health and the environment. Assessments of external effects, and their optimal levels, tend to be piecemeal, localized, and focused on a specific type of effect. Sustainability, on the other hand, is a comprehensive, forward-looking concept that encompasses the achievement of a state of society

that is better overall; it requires a widened concept of welfare that includes environmental quality and social justice in both the short and long term. The book is organized into three sections, each discussing a major set of challenges to the transition to a sustainable transport system.

### Coverage includes:

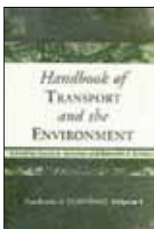
Sustainable transport in terms of: how to cast the future; spatial economic interactions in sustainable settings; and effectiveness and acceptability.

## Climate Change and the Environment

Book

ISSN: 1472-7889

[www.emeraldinsight.com/books](http://www.emeraldinsight.com/books)



## Handbook of Transport and the Environment

### Series Editors

**David Hensher**  
The University of Sydney,  
Australia

**Kenneth Button**  
George Mason University, USA

As one of the most challenging issues facing the transport sector, the need for this *Handbook*, devoted to the environmental impacts of transport, is clear. Each chapter was specially commissioned from an acknowledged world expert on the topic and offers an overview and useful insights to those familiar with the area as well as those new to it. Systematic and thorough in its creation, current and accessible in its content, and authoritative and international in its authorship, the *Handbook of Transport and the Environment* is a definitive reference work on this important subject.

### Coverage includes:

Key environmental concerns including global warming, air quality, noise, safety, amenity, and severance; the role of fuel sources and new technology in reducing environmental externalities; the contribution of each transport sector to energy consumption and emissions – appraisal, valuation, and impacts of externalities; institutional and political settings and policies – the role of environmental legislation; and special topics such as tourism, public attitudes, and gender.

## Climate Change and the Environment

Book

ISSN: 2044-9941

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Coming  
soon

## Transport and Sustainability

NEW TITLE  
2012

**Transport and Sustainability** is a brand new series designed to contain original research contributions dealing with a wide range of issues associated with transport, travel, mobility and sustainability. Many of the books will be edited collections, offering incisive and scholarly analysis of these issues from an array of world-leading experts.

**Coverage includes:**

All the mechanised transport modes, namely road, rail, maritime and aviation; "active" forms of transport, most notably cycling and walking; policy and governance issues regarding transport's relationship with inter-related public policy areas; transport futures, especially in the context of transport's emerging relationship with ICTs; and "mobilities" concerns associated with sociological, behavioural and spatial aspects of travel and transport.

**Series Editors**

**Stephen Ison**  
*Loughborough University, UK*

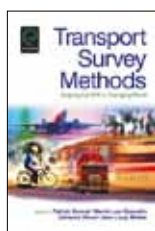
**Jon Shaw**  
*University of Plymouth, UK*

## Research Methods

Book

ISBN: 9781848558441

www.emeraldinsight.com/books



## Transport Survey Methods: Keeping up with a Changing World

This book is a new chapter in a continuing international collaboration on transportation survey methods. It identifies new challenges to the world community of transport survey specialists as well as the larger constituency of practitioners, planners, and decision-makers that it serves and provides potential solutions and recommendations for addressing them.

The book is structured around an introduction and five overlapping themes of major contemporary

importance to the development of data collection on both passenger travel and freight movements.

**Coverage includes:**

Sustainability and user adaptation; global social issues; freight and transit planning; technology applications; and emerging/persistent survey issues, including data harmonization.

**Editors**

**Patrick Bonnel**  
*ENTPE-LET, France*

**Martin Lee-Gosselin**  
*Université Laval, Canada*

**Johanna Zmud**  
*NuStats, USA*

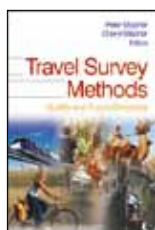
**Jean-Loup Madre**  
*INRETS, France*

## Research Methods

Book

ISBN: 9780080446622

www.emeraldinsight.com/books



## Travel Survey Methods: Quality and Future Directions

This book is a new chapter in the continuing focus of the International Steering Committee for Travel Survey Conferences (ISCTSC). It was derived from papers that were part of the 7th International Conference on Travel Survey Methods in 2004. The Conference covered both passenger and freight transport, and focused on surveys that collect information directly from individuals or organizations. Delegates attended from North, Central and South America, Europe, Asia, Australasia and Africa, so there was a keen interest in examining applicability of standards and looking at needed

future research in regions outside the North American/Western European context.

**Coverage includes:**

The papers extend discourse on broad topic areas that have been addressed by the ISCTSC in previous conferences, provide an update on travel survey initiatives currently under way in many countries, and offer a glimpse into the future in the form of changing contexts, new topics, new technologies, and new standards from around the world, with an emphasis on standards and future research directions.

**Editors**

**Peter Stopher**  
*The University of Sydney, Australia*

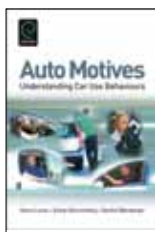
**Cheryl Stecher**  
*Franklin Hills Consulting Group, USA*

## Systems, Planning and Process

Book

ISBN: 9780857242334

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## Auto Motives: Understanding Car Use Behaviours

RECENT TITLE  
2011

## Editors

**Karen Lucas**  
*University of Oxford, UK*

**Evelyn Blumenberg**  
*UCLA, USA*

**Rachel Weinberger**  
*University of Pennsylvania, USA*

Our global reliance on private automobiles as the primary means for transporting individuals is likely to become increasingly problematic over the next ten to 20 years. International traffic forecasts suggest that the total number of private automobiles will grow from approximately 800 million in 2002 to more than two billion in 2030. At the same time, lack of

automobility leads to social exclusion and hinders positive economic outcomes for many segments of society.

## Coverage includes:

Theories and Concepts of Car Use; The Factors That Motivate Choices, Differences between People.

## Systems, Planning and Process

Book

ISBN: 9781849507721

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## Choice Modelling

The State-of-the-art and the State-of-practice – Proceedings from the Inaugural International Choice Modelling Conference

## Editors

**Stephane Hess and Andrew Daly**  
*Institute for Transport Studies, University of Leeds, UK*

This book contains a selection of the best theoretical and applied papers from the inaugural International Choice Modelling Conference. The Conference was organised by the Institute for Transport Studies at the University of Leeds and was held in 2009. The Conference brought together leading researchers and practitioners from across the many different areas in which choice modelling is a key technique for understanding behaviour and evaluating policy. The diversity of the field was reflected in presentations by both academics and practitioners,

from six continents and a variety of fields including transport and economics. Key contributions include papers from Professor Daniel McFadden, from the University of California, Berkeley – Nobel Prize laureate in Economics and chief architect of random utility modelling.

## Coverage includes:

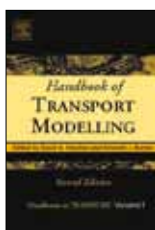
Data collection; concepts and methodology; endogeneity and heterogeneity; transport modelling; and modelling beyond transport.

## Systems, Planning and Process

Book

ISSN: 1472-7889

www.emeraldinsight.com/books



## Handbook of Transport Modelling, 2nd edition

## Series Editors

**David Hensher**  
*The University of Sydney, Australia*

**Kenneth Button**  
*George Mason University, USA*

Since 2000, an exponential amount of research has been completed in the field of transport modelling, thereby creating a need for an expanded and revised edition of this book. National transport models have taken on the new modelling methods and there have been theoretical and empirical advances in performance measurement. This 2nd edition will continue to be an essential reference for researchers and practitioners in the field. All contributions are by leading experts in their respective fields and there is

extensive cross-referencing of subject-matter. The book features expanded coverage on emerging trends and updated case studies and also addresses models for specific applications to the likes of parking, national traffic forecasting, public transport, urban freight movements, and logistics management.

## Coverage includes:

Current demand methods; data issues; valuation; and cost and performance and updated traffic models.

With particular strength in transport, planning and policy, and research methodology, key titles within the Transport collection include the acclaimed six-volume set of *Handbooks in Transport*, edited by Professor David Hensher at the University of Sydney (Australia) and Professor Kenneth Button at George Mason University (USA).

#### Systems, Planning and Process

Book

ISBN: 9780857246110

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#### Editor

Rosário Macário  
Lisbon Technical University,  
Portugal

## Managing Urban Mobility Systems

RECENT TITLE  
2011

Urban mobility is currently a major problem all over the world. Space is limited, and individuals aim for a level of quality in mobility that is only achieved by largely motorised solutions, which have a detrimental effect on the urban environment. Careful analysis of urban mobility systems across the world reveals that consistent and effective policies can only be defined and implemented if the various components of the system and their interrelations are considered.

#### Coverage includes:

A framework for managing urban mobility systems; simplifying complexity in urban mobility systems; quality factors in urban mobility systems; how to set up a management model for urban mobility systems; and the need for a strategic approach to urban development.

#### Systems, Planning and Process

Book

ISBN: 9781848557505

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#### Editor

Harry Timmermans  
Technische Universiteit  
Eindhoven, The Netherlands

## Pedestrian Behavior: Models, Data Collection and Applications

Studies of pedestrian behavior have recently gained much attention in a variety of disciplines, including urban planning, transportation, civil engineering, computer science/artificial intelligence and applied physics, and a variety of models for simulating pedestrian behavior have been suggested. Moreover, new technologies have also recently been used to collect data about pedestrian movement patterns. In this book, leading scholars representing different fields of application have written chapters about the analysis and modeling of pedestrian movement patterns as a means of documenting these new

developments in research and modeling approaches. These chapters illustrate that such models can be successfully used to simulate phenomena such as lane formation, crowding, activity-patterns, path decisions, micro-behavior, impulse buying and store choice behavior.

#### Coverage includes:

The book looks at the following modelling approaches: cellular automata models, fluid dynamics, discrete choice models, rule-based models, multi-agent models and models of bounded rationality.

## Systems, Planning and Process

Book

ISBN: 9780080451190

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## Editors

Moshe Ben Akiva  
MIT, USA

Hilde Meersman and Eddy  
van de Voorde  
University of Antwerp, Belgium

## Recent Developments in Transport Modelling: Lessons for the Freight Sector

This book is intended for transportation professionals interested in the role of Information and Communications Technologies (ICTs), and freight transport modeling and policy. It is dedicated to the memory of Professor Marvin L. Manheim, the father of modern Transportation Systems Analysis (TSA). The book is divided into three main parts. The first focuses on Professor Marvin L. Manheim and his path-breaking contributions to transportation. The remainder of the book – parts two and three – look at freight transport modeling and policy, and present an application of Manheim's TSA paradigm.

## Coverage includes:

A model of the linkages between freight and the macro-economic environment; models of the detailed aspects of logistics choices such as mode of transport, transshipments, and shipment size; predictions of production to consumption freight flows through the use of multi-regional input-output models; choice analysis using freight market research surveys; and estimation of value of quality attributes and value of time in freight transport.

## Systems, Planning and Process

Book

ISBN: 9781848559363

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## Editors

Ryuichi Kitamura  
*In memoriam*

Toshio Yoshii  
Kyoto University, Japan

Toshiyuki Yamamoto  
Nagoya University, Japan

## The Expanding Sphere of Travel Behaviour Research

The International Association for Travel Behaviour Research conference proceedings series has a history of over 30 years and is widely read by researchers, practitioners and graduate students in the field of transportation, urban planning and, in particular, travel behaviour analysis. It is the only series of conference proceedings that comprehensively reviews, synthesizes and identifies research needs and future research directions for the respective sub-areas of the travel behaviour research field as well as presenting state-of-the-art assessments by distinguished authors. This book

examines key issues and emerging trends in the expanding field of travel behaviour via workshop resource papers by distinguished authors in nine subject areas, synthesis papers with a focus on Asian developments and 16 selected research papers.

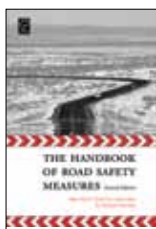
## Coverage includes:

Key areas of travel behaviour analysis including: group behaviour, data acquisition, econometric methods, activity analysis, policy analysis and management, measurement and quantification and decision dynamics.

## Traffic and Transport Safety

Book

ISBN: 9781848552500

[www.emeraldinsight.com/books](http://www.emeraldinsight.com/books)

## Editors

Rune Elvik, Truls Vaa,  
Alena Høye and Michael  
Sørensen  
Institute of Transport  
Economics, Oslo

## The Handbook of Road Safety Measures, Second Edition

The 2nd edition of this acclaimed book (previously published in 2004) gives state-of-the-art summaries of current knowledge regarding the effects of 128 road safety measures.

## Coverage includes:

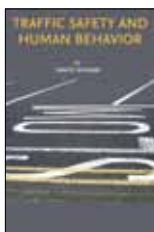
All areas of road safety including: traffic control; vehicle inspection; driver training; publicity campaigns; police

enforcement; and general policy instruments. With many original chapters revised and several new ones added, extra topics covered in this edition include: post-accident care; DUI legislation and enforcement; environmental zones; and speed cameras.

## Traffic and Transport Safety

Book

ISBN: 9780080450292

[www.emeraldinsight.com/books](http://www.emeraldinsight.com/books)

## Traffic Safety and Human Behavior

Traffic crashes have become the epidemic of the third millennium – a seemingly necessary evil that accompanies increasing levels of motorization. In this comprehensive book, Dr David Shinar provides a theoretical framework and a critical evaluation of the most recent research findings to comprehend the complexity of traffic safety and the central role that drivers, motor-cyclists, and pedestrians play in it. In approximately 800 pages with over 250 graphs and

tables, Shinar covers the key issues that relate human behavior to traffic safety.

### Coverage includes:

Background, methods, models; driver capacities and individual differences; driving style; driver temporary impairments; other road users; and crash causation and countermeasures.

### Editor

David Shinar  
Ben Gurion University of the  
Negev, Israel

## Transport Theory

Book

ISBN: 9780080450285

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## Transport Economic Theory

The study of transport is the study of movements, of displacements of individuals and things in both space and time. The objective of this book is to provide the basic concepts and tools for the economic analysis of transport systems, with emphasis on the behaviour of users and operators. Distinctive features will be introduced and treated as the natural consequence of processes that deal with displacements in space-time. Emphasis will be given to the operation of transportation systems, i.e. to the actual form of combining vehicles, terminals and

rights-of-way in order to produce certain levels of flows of different things in different directions. This book focuses on the behavior of users and operators outside traditional economic behavior theory and includes time and space as a distinctive feature of transport economics.

### Coverage includes:

Transport production and cost structure; travel demand and value of time; valuation of users' benefits in transport systems; and optimal transport pricing.

### Editor

Sergio Jara-Díaz  
University of Chile, Chile

Featured editors within the Transport collection include Professor Moshe Ben-Akiva at Massachusetts Institute of Technology (USA), Professor David Banister from University of Oxford (UK) and Professor Peter Stopher from University of Sydney (Australia).