



**RESEARCH IN TRANSPORTATION  
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**ROAD PRICING:  
THEORY AND EVIDENCE**

**GEORGINA SANTOS**  
Editor

# Road Pricing Theory And Evidence

**Alejandro Tirachini, Daniel Hörcher, Erik  
T. Verhoef**

## **Road Pricing Theory And Evidence:**

Road Pricing Georgina Santos,2004-07-31 Traffic congestion affects towns and cities everywhere and in some places it is regarded as one of the most urgent and important problems in need of a solution Road pricing is undoubtedly recognised as an effective traffic demand management tool The recent London congestion charging scheme seems to be showing that public and political opposition is not insurmountable Thus the ghost that prevented the introduction of a policy supported by transport economists for over 80 years seems to have disappeared or at least weakened The book contains twelve papers useful to different types of audience such as researchers and postgraduate students civil servants policy makers and consultants The first part is mainly theoretical and concentrates on second best congestion pricing including pricing in urban contexts the impact on the performance of the road network optimal locations and charge levels dynamic aspects such as time variation of tolls potential impacts of road pricing on costs and service quality of public transport buses and efficiency costs and transport sector effects of different types of pricing when they guarantee a balanced budget per mode The second part contains chapters that describe the schemes in place around the world such as Singapore Norway London and the US The volume is an update of the state of the art on the subject and the first one to have been written and appear after the London scheme was implemented and to contain an assessment of its preliminary impacts Road Pricing, the Economy and the Environment C. Jensen-Butler,Brigitte Sloth,Morten M. Larsen,Bjarne Madsen,Otto A. Nielsen,2008-01-24 Economic growth and globalisation create traffic growth leading to congestion which again increases travel times and costs Road pricing is an instrument that may efficiently reduce the negative impacts This volume is a collection of research papers on the use of road pricing The focus is on passenger transport and the papers cover a wide range of approaches including theoretical modelling and empirical studies of road pricing experience from different cities **Investment and the use of Tax and Toll Revenues in the Transport Sector** Andre de Palma,Robin Lindsey,Stef Proost,2007-04-24 Transport infrastructure developments will depend increasingly on the level of user charges One reason is the ongoing liberalization of the EU transport sector especially for air and rail Another is the trend towards implementing tolls and other user charges on roads It is expected that user charges will progressively replace government subsidies for infrastructure expansion and maintenance Revenues from user charges may also be used to cross subsidize other transport modes The surplus anticipated on urban roads could be used to fund infrastructure and operation of public transport and or non urban roads This book brings together both the theory and the current practice of user charges tolls and revenue use in European countries It examines public finance aspects such as earmarking as well as public management aspects of different pricing and revenue use principles A set of guidelines is developed for a better use of toll and tax revenues The set of guidelines is tested with a new cost benefit tool in case studies that cover France Germany Norway Switzerland and the UK Research in Transportation Economics is now available online at ScienceDirect full text online of volumes 6 onwards **The Implementation and**

**Effectiveness of Transport Demand Management Measures** Tom Rye, 2016-03-03 Congestion and traffic related pollution are increasingly becoming major issues in towns and cities world wide This book deals with carefully selected market and non market based measures to reduce congestion and their implementation and effectiveness in tackling the problem The book features a multi authored research based text comprising 12 individual chapters that draw upon relevant case studies The authors were specifically chosen for their global expertise in terms of the respective Demand Management Tools Drawing on international case studies the book details the role played internationally by selected Transport Demand Management TDM measures in dealing with both congestion and traffic related pollution in urban areas focusing on their relative merits and in particular their effectiveness and the issues surrounding implementation

**Road Pricing: Theory, Empirical Assessment and Policy** Börje Johansson, Lars-Göran Mattsson, 2012-12-06 Road pricing tolls etc as a means of generating revenue for infrastructure investment has become a major policy option in both Europe and North America It can also be used as a policy in the management of traffic demand and flow environmental objectives and optimal resource allocation as regards the size of investments Road pricing is assumed to be able to solve many problems simultaneously congestion control pollution reduction and investment financing This volume assembles and assesses theoretical knowledge empirical results and experiences of actual road pricing In addition the impact of new information technology on future policy formulation is considered

*The Economics of Urban Transportation* Kenneth A. Small, Erik T. Verhoef, 2007-10-18 This timely new edition of Kenneth A Small s seminal textbook *Urban Transportation Economics* co authored with Erik T Verhoef has been fully updated covering new areas such as parking policies reliability of travel times and the privatization of transportation services as well as updated treatments of congestion modelling environmental costs and transit subsidies Rigorous in approach and making use of real world data and econometric techniques it contains case studies from a range of countries including congestion charging in Norway Singapore and the UK light rail in the Netherlands and freeway tolls in the US Small and Verhoef cover all basic topics needed for any application of economics to transportation forecasting the demand for transportation services under alternative policies measuring all the costs including those incurred by users setting prices under practical constraints choosing and evaluating investments in basic facilities designing ways in which the private and public sectors interact to provide services This book will be of great interest to students with basic calculus and some knowledge of economic theory who are engaged with transportation economics planning and or engineering travel demand analysis and many related fields It will be essential reading for researchers in any aspect of urban transportation

*QFINANCE: The Ultimate Resource, 4th edition* Bloomsbury Publishing, 2013-09-26 QFINANCE The Ultimate Resource 4th edition offers both practical and thought provoking articles for the finance practitioner written by leading experts from the markets and academia The coverage is expansive and in depth with key themes which include balance sheets and cash flow regulation investment governance reputation management and Islamic finance encompassed in

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**A Handbook of Transport Economics** André de Palma, Robin Lindsey, Emile Quinet, Roger Vickerman, 2011-01-01 This Handbook is a stellar compilation of up to date knowledge about the important topics in transport economics Authors include the very best in the field and they cover the most important topics for today's research and policy applications Individual chapters contain sound readable well referenced explanations of each topic's history and current status I cannot think of a better place to start for anyone wanting to become current in the field or in any of its parts Kenneth Small University of California Irvine US Bringing together insights and perspectives from close to 70 of the world's leading experts in the field this timely Handbook provides an up to date guide to the most recent and state of the art advances in transport economics The comprehensive coverage includes topics such as the relationship between transport and the spatial economy recent advances in travel demand analysis the external costs of transport investment appraisal pricing equity issues competition and regulation the role of public private partnerships and the development of policy in local bus services rail air and maritime transport This Handbook is designed both for use on postgraduate and advanced undergraduate courses and as a reference for anyone working in the field It also complements the textbook Principles of Transport Economics

Network Economics Günter Knieps, 2014-11-14 This textbook on network economics provides essential microeconomic instruments for the analysis of network sectors like telecommunications transport or energy Network specific characteristics emerge both on the cost side and benefit side requiring network providers to develop innovative entrepreneurial competition strategies for costing pricing and investment From a competition policy perspective a number of interesting questions arise In which parts of networks is competition functional In contrast where is an abuse of market power to be expected What is the division of labor between cartel authorities and regulatory agencies The book develops an analytical framework for all network industries which allows readers to study entrepreneurial strategies as well as regulation and competition policies for network industries

**Managing Urban Traffic Congestion** European Conference of Ministers of Transport, 2007-05-31 Offers policy oriented research based recommendations for effectively managing traffic and cutting excess congestion in large urban areas

New Perspectives for Environmental Policies Through Behavioral Economics Frank Beckenbach, Walter Kahlenborn, 2015-09-25 This book presents essential insights on environmental policy derived from behavioral economics The authors demonstrate the potential of behavioral economics to drive environmental protection and to generate concrete proposals for the efficient

design of policy instruments Moreover detailed recommendations on how to use nudges and related instruments to move industry and society toward a sustainable course are presented This book addresses the needs of environmental economists behavioral economists and environmental policymakers as well as all readers interested in the intersection between behavioral economics and environmental policy Congestion Charging in London Martin G. Richards,2005-11-29 Ken Livingstone was elected Mayor of London on a platform that included a congestion charge for central London a policy that became reality on 17 February 2003 Richards uses his experience as Director of a 2.5 million Government congestion charging study as one of those who created the scheme Livingstone adopted and as advisor to the London Assembly to provide a critical record of the introduction of the London Congestion Charge and of its implications for congestion charging elsewhere *Handbook on Transport Pricing and Financing* Alejandro Tirachini, Daniel Hörcher, Erik T. Verhoef,2023-05-09 Taking a comprehensive approach to two central closely intertwined themes in the field of transport economics this illuminating Handbook recognizes the critical socioeconomic importance of transport pricing and financing *International Encyclopedia of Transportation* ,2021-05-13 In an increasingly globalised world despite reductions in costs and time transportation has become even more important as a facilitator of economic and human interaction this is reflected in technical advances in transportation systems increasing interest in how transportation interacts with society and the need to provide novel approaches to understanding its impacts This has become particularly acute with the impact that Covid 19 has had on transportation across the world at local national and international levels Encyclopedia of Transportation Seven Volume Set containing almost 600 articles brings a cross cutting and integrated approach to all aspects of transportation from a variety of interdisciplinary fields including engineering operations research economics geography and sociology in order to understand the changes taking place Emphasising the interaction between these different aspects of research it offers new solutions to modern day problems related to transportation Each of its nine sections is based around familiar themes but brings together the views of experts from different disciplinary perspectives Each section is edited by a subject expert who has commissioned articles from a range of authors representing different disciplines different parts of the world and different social perspectives The nine sections are structured around the following themes Transport Modes Freight Transport and Logistics Transport Safety and Security Transport Economics Traffic Management Transport Modelling and Data Management Transport Policy and Planning Transport Psychology Sustainability and Health Issues in Transportation Some articles provide a technical introduction to a topic whilst others provide a bridge between topics or a more future oriented view of new research areas or challenges The end result is a reference work that offers researchers and practitioners new approaches new ways of thinking and novel solutions to problems All encompassing and expertly authored this outstanding reference work will be essential reading for all students and researchers interested in transportation and its global impact in what is a very uncertain world Provides a forward looking and integrated approach to transportation

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**ITF Round Tables Implementing Congestion Charges** International Transport Forum,2010-08-31 Recent advances in the scientific understanding of urban traffic congestion have only strengthened the already solid case for congestion charges as an element of a successful urban transport policy This report draws lessons from attempts to introduce congestion charges

**Climate Change and Global Energy Security** Marilyn A. Brown,Benjamin K. Sovacool,2011-08-12 An exploration of commercially available technologies that can enhance energy security and address climate change and public policy options crucial to their adoption Tackling climate change and improving energy security are two of the twenty first century s greatest challenges In this book Marilyn Brown and Benjamin Sovacool offer detailed assessments of the most advanced commercially available technologies for strengthening global energy security mitigating the effects of climate change and enhancing resilience through adaptation and geo engineering They also evaluate the barriers to the deployment of these technologies and critically review public policy options crucial to their adoption Arguing that society has all the technologies necessary for the task Brown and Sovacool discuss an array of options available today including high efficiency transportation renewable energy carbon sequestration and demand side management They offer eight case studies from around the world that document successful approaches to reducing emissions of greenhouse gases and improving energy security These include the Danish approach to energy policy and wind power Brazil s ethanol program China s improved cookstove program and the U S Toxics Release Inventory Brown and Sovacool argue that meeting the twin challenges of climate change and energy security will allow us to provide energy maintain economic growth and preserve the natural environment without forcing tradeoffs among them

**Global Energy Justice** Benjamin K. Sovacool,Michael H. Dworkin,2014-10-02 This book explores how the idea of justice can give us a way to better assess and resolve energy challenges and problems

*Making Cities Work* Robert P. Inman,2009-01-05 Making Cities Work brings together leading writers and scholars on urban America to offer critical perspectives on how to sustain prosperous livable cities in today s fast evolving economy Successful cities provide jobs quality schools safe and clean neighborhoods effective transportation and welcoming spaces for all residents But cities must be managed well if they are to remain attractive places to work relax and raise a family otherwise residents firms and workers will leave and the social and economic advantages of city living will be lost Drawing on cutting edge research in the social sciences the contributors explore optimal ways to manage the modern city and propose solutions to today s most pressing urban problems Topics include the urban economy transportation housing and open space immigration race the impacts of poverty on children education crime and financing and managing services The contributors show how to make cities work for diverse urban constituencies and why we still need cities despite the many challenges they pose Making Cities Work brings the latest findings in urban economics to policymakers researchers and students as well as anyone interested in

urban affairs In addition to the editor the contributors are David Card Philip J Cook Janet Currie Edward L Glaeser Joseph Gyourko Richard J Murnane Witold Rybczynski Kenneth A Small and Jacob L Vigdor **Getting Energy Prices Right** Ian W.H. Parry, Mr. Dirk Heine, Eliza Lis, Shanjun Li, 2014-07-22 Energy taxes can produce substantial environmental and revenue benefits and are an important component of countries fiscal systems Although the principle that these taxes should reflect global warming air pollution road congestion and other adverse environmental impacts of energy use is well established there has been little previous work providing guidance on how countries can put this principle into practice This book develops a practical methodology and associated tools to show how the major environmental damages from energy can be quantified for different countries and used to design the efficient set of energy taxes **Proceedings of the ... Conference of the Hong Kong Society for Transportation Studies** Hong Kong Society for Transportation Studies. Conference, 2003

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