

**ROAD PRICING:**  
**Theory, Empirical Assessment**  
**and Policy**

edited by

**Börje Johansson and Lars-Göran Mattsson**

of

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# Road Pricing Theory Empirical Assessment And Policy

**Börje Johansson, Lars-Göran Mattsson**



## **Road Pricing Theory Empirical Assessment And Policy:**

**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 *Blueprint 5* Olof Johansson, David Pearce, David Maddison, 2014-01-14 Evidence has come to light regarding the impact of benzene emissions from road transport the incidence of asthmatic attacks and the possible toll of particulate matter from diesel engines on human health This book examines the issues and argues that without a fundamental change in policy it is inevitable that the transport sector will continue to impose increasing costs on the natural environment human health and the economy It also quantifies the external costs of road transport and suggests new measures such as road pricing and financial incentives to pave the way to a sustainable transport system The Cambridge Handbook of Psychology and Economic Behaviour Alan Lewis, 2018-02-15

There has recently been an escalated interest in the interface between psychology and economics The Cambridge Handbook of Psychology and Economic Behaviour is a valuable reference dedicated to improving our understanding of the economic mind and economic behaviour Employing empirical methods including laboratory and field experiments observations questionnaires and interviews the Handbook provides comprehensive coverage of theory and method financial and consumer behaviour the environment and biological perspectives This second edition also includes new chapters on topics such as neuroeconomics unemployment debt behavioural public finance and cutting edge work on fuzzy trace theory and robots cyborgs and consumption With distinguished contributors from a variety of countries and theoretical backgrounds the Handbook is an important step forward in the improvement of communications between the disciplines of psychology and economics that will appeal to academic researchers and graduates in economic psychology and behavioral economics

**Sustainable Systems and Energy Management at the Regional Level: Comparative Approaches** Tortora, Marco, 2011-11-30 Conducting a systematic and comparative review of energy and environmental issues especially at the regional and national levels can improve communication among different disciplines and be helpful for managers politicians and stakeholders involved in energy and environmental systems Sustainable Systems and Energy Management at the Regional Level Comparative Approaches provides an interdisciplinary look at the possible relationships which exist between energy and the environment Relevant theoretical frameworks and the latest empirical research findings on the impacts of regulation policies market facilitation policies and communication models and policies are reviewed with the aim of

improving understanding and strategy      The Routledge Handbook of Transport Economics Jonathan Cowie, Stephen Ison, 2017-08-07 The Routledge Handbook of Transport Economics offers the first state of the art overview of the discipline of transport economics as it stands today reflective of key research and policy Transport is an important area of study and one which is problem rich stimulating a great deal of debate in areas which impact on everyday lives Much of this focuses on the practicalities of the modern day phenomenon of mass movement and all of the issues which surround it The discipline of economics is central to this debate and consequently the study and application of transport economics has a chief role to play in seeking to address subjects relating to major transport issues It can be argued that at the very heart of any transport issue or problem lies the underlying economics of the situation understand that and you alleviate the problem Featuring contributions from world leading scholars and practitioners from across the globe all of the chapters within this book are written from a practical perspective theory is applied and developed using real world examples The book examines concepts issues ideas and practicalities of transport provision in five key topic areas public transport public transport reform economic development and transport modelling transport and the environment freight transport A real strength of the book is in linking theory to practice and hence the economics that are examined in this text are not the economics of the abstract but rather the economics of everyday living Practical and insightful this volume is an essential reference for any student or researcher working in all areas of transport provision ranging from planning appraisal regulation and freight and for all practitioners looking to develop their professional knowledge and who are seeking professional accreditation      **Theory and Practice of Excise Taxation** Sijbren Cnossen, 2005-02-03 Excise taxes are not only convenient sources of government revenue they can also be designed to reflect the external costs of excisable products such as global warming acid rain traffic congestion and the costs of cigarette and alcohol consumption This book by internationally recognized experts analyses the art of excise taxation providing a systematic insightful and often provocative treatment of a major fiscal instrument that policy makers often neglect and that gets little attention in the professional literature      **Economics of Urban Highway Congestion and Pricing** J. F. McDonald, Edmond L. d'Ouille, Louie Nan Liu, 2012-12-06 Economics of Urban Highway Congestion and Pricing offers the most extensive examination to date of the relationship between congestion tolls and highway capacity in the long run This study breaks new ground in the economic theory of optimal road capacity by including theoretical contributions empirical studies and simulation experiments that all pertain to the general topic reflected in the title The book is organized into four sections 1 highway traffic flow 2 commuter choice of tollways versus freeways 3 congestion pricing in the short run and 4 road capacity and pricing in the long run In particular the first section on highway traffic flow examines the chief models and empirical studies of vehicular flow on urban highways The second section of the book is a theoretical and empirical examination of the choice that commuters make between urban tollways and freeways The third section is devoted to congestion pricing in the short run the time period in which the urban highway facilities are

taken as given This section is the most important part of the book from the standpoint of public policy The fourth and last section of the book considers road capacity and pricing in the long run with the concluding chapter gathering the authors main results in one place and making recommendations both for current policy and for future research

*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

Opportunities to Improve Air Quality Through Transportation Pricing Programs, 1997

*Expanding Sphere of Travel Behaviour Research* Ryuichi Kitamura, Toshio Yoshii, Toshiyuki Yamamoto, 2009-10-01 Suitable for researchers and graduate students in the field of transportation and urban planning in general and in travel behaviour analysis in particular this volume of the 11th International Conference on Travel Behaviour Research held in Kyoto Japan in August 2006 examines key issues and emerging trends in the field of travel behaviour

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 also be essential reading for researchers in any aspect of urban transportation

*The High Cost of Free Parking* Donald Shoup, 2017-10-20 One of the American Planning Association's most popular and influential books is finally in paperback with a new preface from the author on how thinking about parking has changed since this book was first published In this no holds barred treatise Donald Shoup argues that free parking has contributed to auto dependence rapid urban sprawl extravagant energy use and a host of other problems Planners mandate free parking to alleviate congestion but end up distorting transportation choices debasing urban design damaging the economy and degrading the environment Ubiquitous free parking helps explain why our cities sprawl on

a scale fit more for cars than for people and why American motor vehicles now consume one eighth of the world's total oil production But it doesn't have to be this way Shoup proposes new ways for cities to regulate parking namely charge fair market prices for curb parking use the resulting revenue to pay for services in the neighborhoods that generate it and remove zoning requirements for off street parking Such measures according to the Yale trained economist and UCLA planning professor will make parking easier and driving less necessary Join the swelling ranks of Shoupistas by picking up this book today You'll never look at a parking spot the same way again

**Network Infrastructure and the Urban Environment** Lars Lundqvist, Lars-Göran Mattsson, Tschangho John Kim, 2012-12-06 This volume is the result of an international collaboration which started with a conference at Smadalaro Gfrd in Sweden The workshop was supported by the National Science Foundation of the USA INT 9215114 and by the Swedish National Road Administration the Swedish Council for Building Research the Swedish Transport and Communications Research Board and the Swedish Council for Planning and Coordination of Research This support is gratefully acknowledged The collaboration started as a bilateral U.S. Swedish endeavour but was soon widened to other scholars in Europe Asia Australia and South America Network Infrastructure and the Urban Environment is a policy area of growing importance Sustainable cities and sustainable transport systems are necessary for attaining a sustainable development The research and policy field represented in this volume comprises a number of challenging contrasts the contrast between infrastructure investments mobility and environmental sustainability the contrast between policy contexts modelling traditions and available decision support systems in various parts of the world the contrast between available best practice methods and the majority of models applied in planning the contrast between static models of cross sectional equilibria and dynamic models of disequilibrium adjustments and the contrast between state of the art operational land use transport models and new demands for land use transport environment models due to changing policy contexts Bridging some of these gaps constitutes important research tasks that are discussed in the twenty two chapters of this book A number of emerging research directions are identified in the introduction and summary chapter

**EPA 190-R**, 1997      **EPA/420-R**, 19??      **Traffic and Transport Psychology** Talib Rothengatter, Raphael Denis Huguenin, 2004-09-08 This volume gives an overview of the trends in Traffic and Transport Psychology It reflects the considerable development of the most important factors for driving a road vehicle and the variety of international research approaches The first part contains basic approaches and integrated models as well as general theories and their implementation into Traffic and Transport Psychology The second part deals with the driver especially cognition performance social and differential effects and impairment Important aspects are treated such as speed perception reaction times interaction risk acceptance aggression and gender differences Special chapters refer to performance and fatigue The third part focuses on safety driver support selection and influencing drivers by enforcement training and programs for the rehabilitation of traffic offenders Classic ergonomic methods are discussed as well as modern telematic

devices or trends regarding driver assessment In the last part current developments are presented in relation to better mobility and the protection of the environment Questions are asked such as whether we could reduce the use of cars how travel behaviour can be modified or to what extent the use of alternatives to motor vehicles benefits safety as well as the environment This work is not only important for psychologists It should be read by all transport professionals interested in the application of psychology to traffic      *The Full Costs and Benefits of Transportation* David L. Greene,Donald W.

Jones,Mark A. Delucchi,2012-12-06 Modern transportation systems have pervasive and far reaching effects on society and the environment Mobility and other benefits of modern transportation arrive with many serious undesired consequences deaths and injuries in transport accidents pollution of air water and groundwater noise congestion greenhouse gas emissions etc Governments and markets both play critical roles in providing infrastructure and operating and policing transportation systems As world transport systems expand and become increasingly motorized the transportation community is searching for transportation systems that are both efficient and sustainable In this book leading international researchers explore the issues and concepts and define the state of knowledge concerning transportation s full costs and benefits      **Street Smart**

Gabriel Roth,2017-07-05 The poor health of today s roads a subject close to the hearts of motorists taxpayers and government treasurers around the world has resulted from faulty incentives that misdirect government decision makers according to the contributors to Street Smart During the 1990s bad government decision making resulted in the U S Interstate Highway System growing by only one seventh the rate of traffic growth The poor maintenance of existing roads is another concern In cities around the world highly political and wasteful government decision making has led to excessive traffic congestion that has created long commutes reduced safety and caused loss of leisure time Street Smart examines the privatization of roads in theory and in practice The authors see at least four possible roles for private companies beyond the well known one of working under contract to design build or maintain governmentally provided roads These include testing and licensing vehicles and drivers management of government owned facilities franchising and outright private ownership Two chapters describe the history of private roads in the United Kingdom and the United States Contemporary examples are provided of road pricing privatizing and contracting out are evident in environs as diverse as Singapore Southern California and Scandinavia and cities as different as Bergen Norway and London England Finally several chapters examine strategies for implementing privatization The principles governing providing scarce resources in free societies are well known We apply them to such necessities as energy food and water so why not to road space The main obstacle to private or semi private ownership of roads is likely to remain the reluctance of the political class to give up a lucrative source of power and influence Those who want decisions about road services to be controlled by the interplay of consumers and suppliers in free markets rat      [A New Deal for Transport?](#) Iain Docherty,Jon Shaw,2011-07-20 Comprising contributions from a range of experts this volume offers a critical commentary on the government s sustainable transport policy A critical commentary on the Blair

government's sustainable transport policy and its implementation. Firmly rooted in an appreciation of the politics of this controversial field, Experts contribute up to the minute analyses of the key issues. Will inform debate over the future of transport policy. Includes a Foreword by David Begg, Chair of the Commission for Integrated Transport. Applied Behavioral Economics Research and Trends Ianole, Rodica, 2016-12-12. Interdisciplinary factors in the modern business realm have significant impacts on economic agents within organizations. These behavioral influences affect multiple decision making processes on both the individual and organizational levels. Applied Behavioral Economics Research and Trends provides a comprehensive examination of the social psychological and emotional factors in organizational behavior and economic decision making and how these issues provide a deeper understanding of various economic behaviors. Highlighting relevant coverage across a range of topics such as consumer behavior, inter temporal choices and self employment, this book is ideally designed for managers, researchers, professionals, graduate students and practitioners seeking scholarly material on the implications of behavioral economics across numerous industries.



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