PASSENGER RAIL TRANSPORT: ECONOMICS AND MANAGEMENT

Course reading for the scientific seminar

Speaker: Doctor of Economics, Associate Professor
Larisa V. Lapidus
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Moscow, 2013
M.R. Cairns, Transport ' . . . this book does read very much like a textbook; it explains economic concepts clearly, often in both words and mathematical equations, and identifies their relevance in the transport field. . . Transport Economics does provide a good basis with which to understand most of the issues behind what is one of the fastest moving areas of environmental activity in an area where most books will be out of date almost as soon as they are written anyway.'

Marcus Enoch, Environmental Politics Transport Economics is a thoroughly revised edition of a well-established textbook which applies economic analysis to transport issues.*

About the Author

Kenneth J. Button, Professor, Director, Center for Transportation Policy, Operations and Logistics, George Mason University, US

* http://books.google.ru/books?id=S1JJYSxo_kUC&q=transport+economics&hl=ru&source=gbs_navlinks_s
Introduction to Transport Economics looks at the different modes of transport and investigates the past and present influences on their behaviour. ... He discusses the future of transport; in the light of climate change and likely fossil fuel shortages, it is important to have a clear idea of what we wish to achieve with a transport system. Also included are a chapter on developing countries, as well as a chapter about international transport as a whole. ... The book also includes questions and specimen answers, since for many students it is difficult to know how to start writing essays.*

* http://books.google.ru/books?id=f66ZRLmINuwC&pg=PA3&hl=ru&source=gbs_selected_pages&cad=3#v=onepage&q&f=false
‘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


About the Editors

Edited by:

André de Palma, Ecole Normale Supérieure de Cachan, France
Robin Lindsey, University of British Columbia, Canada
Emile Quinet, Paris School of Economics, ENPC, Paris, France
Roger Vickerman, University of Kent, UK
The purpose of Transport Economics, however, is to combine four different perspectives in a single volume and to provide a general overview. The four parts have been written independently, which makes it easier for the reader, if required, to restrict himself to whatever part he finds to be of particular interest. Likewise, an effort has been made to allow the reader to choose whether or not to examine the mathematical techniques presented. Those who wish can skip the formulas and mathematical passages and still retain an interesting and coherent text. This handbook will encourage rational analysis and contribute to successful decisions, both within transport firms and in policymaking.*

* http://hoger.deboeck.com/titres/126550_1/transport-economics.html

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**About the Authors**

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**Peter De Baere**

**Eddy van de Voorde** Professor of Port and Maritime Economics, University of Antwerp
Railroad rates were once regarded as one of the most fundamental puzzles in Economics, and were studied by the most eminent economists of the time, including J. B. Clark, J. M. Clark, F. Y. Edgeworth, A. C. Pigou, and F. W. Taussig. The study of railway pricing has played an important role in the development of the economic theory of pricing, and modern theories of multi-product costing and pricing have their origin in railroad rate theory. ... Railroad economics is the study of economic issues arising in the provision of freight and passenger railroad transportation services.*

About the Editors

Scott Dennis  Senior Mechanical Development Engineer/ Vehicle Integration Leader Company Confidential - Clean Energy Transportation

Wayne K Talley is Professor of Economics, holding the designation of Eminent Scholar, at Old Dominion University

Recent years have seen considerable changes in the technology of transportation with the development of high-speed rail networks, more fuel efficient automobiles and aircraft, and the widespread adoption of informatics in disciplines such as traffic management and supply chain logistics. ... Stemming from initiatives of the Network on European Communications and Transport Activities Research (NECTAR), Transportation and Economic Development Challenges presents a body of research that exemplifies the organization’s objective of fostering research collaboration around the world.*

**About the Editors**

**Kenneth J. Button**, Professor, Director, Center for Transportation Policy, Operations and Logistics, George Mason University, US

**Aura Reggiani** - Full Professor of Economic Policy and currently chairing the courses of Transport Economics and Mathematical Methods for Economic Analysis at the University of Bologna (Italy)

* http://books.google.ru/books?id=M0QF5btBPXcC&dq=Transportation+and+Economic+Development+Challenges&hl=ru&source=gbs_navlinks_s
Numerous countries have attempted to improve the performance of their railways by introducing more competition, but there is fierce debate and no consensus on how this is best achieved.

This book reveals how railways were an obvious target for reform because they were often losing traffic and money, and because the government was typically deeply involved as either owner or regulator.*

About the Authors

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Director of the Master in Transport Economics at University Carlos III of Madrid. Professor of Applied Economics at the University of Las Palmas de Gran Canaria (Spain)

* http://books.google.ru/books?id=VFy5TuUoWOcC&hl=ru&source=gbs_navlinks_s
Transport Communications introduces a brand new model consisting of a three-dimensional matrix, NETS (Networks Enabling Transport Systems), which can be applied to land, sea and air travel at every level.

The book examines how modes and levels of transport can be integrated and automated, the impact of future communication technologies, and current issues such as terrorism, pandemics and carbon-based fuels.*

About the Editors

**John Tiffin** is a futurologist in the fields of education, communication and transport. He is The Emeritus Professor of Communications at Victoria University of Wellington.

Professor **Chris Kissling** is Chair of transport studies at Lincoln University, New Zealand.

* http://www.cilt.co.nz/
In a rapidly changing world, with increasing competition in all sectors of transportation, railways are in a period of restructuring their management and technology.

New methods of organization are introduced, commercial and tariff policies change radically, a more entrepreneurial spirit is required. At the same time, new high-speed tracks are being constructed and old tracks are renewed, high-comfort rolling stock vehicles are being introduced, logistics and combined transport are being developed. Awareness of environmental issues and search for greater safety give to the railways a new role within the transportation system.

This book aims to cover the need for a new scientific approach for railways.*

**About the Author**

**Vassilios A. Profillidis** - is Associate Professor of civil engineering at Democritus University of Thrace in Greece. He received his Ph.D. from the Ecole Nationale des Ponts et Chaussees of Paris. He worked as a research associate in the Research Department of the International Union of Railways (UIC) and SNCF.

* http://books.google.ru/books?id=MumsYYDF2xAC&dq=Railway+Management+and+Engineering&hl=ru&source=gbs_navlinks_s
A number of state railways over the world have experienced railway reform, and vertical separation has been frequently utilized during its process. This thesis investigated a variety of models of vertical separation, which the railway sector has experienced over the twenty years.

The main aims of the research are clarifying the key issues on vertical separation: aims of the reform; forms and implementation; advantages; disadvantageous effects. Based on the examination into the selected cases, this study comparatively analyzed them in terms of: 1) separation of operational factors; and 2) separation of financial responsibilities. The study also tried to examine an appropriate form of railways depending on the market structure.*

**About the Author**

Dr Fumio Kurosaki is a Deputy Dept. Manager of JR East Consultants Company Overseas Department. He joined JR East in April 1988. Prior to his current position, he served as Chargé de Missions in the World Department of the International Union of Railways (UIC). He was awarded his doctorate from the University of Leeds in 2008.
The European Commission explicitly deems the expansion of high speed rail as a priority within the trans-European networks, allocating an important part of the community funds for its development with the declared aim of increasing the market share of rail transport.

The aim of this report is to contribute to the economic analysis of new high speed rail investment projects requiring public funds. The economic evaluation of projects can help governments to obtain a clearer view of the expected net benefits of different lines of action, as it attempts to identify the projects which really deserve the sacrifice of other social needs competing for the same public funds.*

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'There appears to be no other recently published work offering similar encyclopedic style coverage. . . A Dictionary of Transport Analysis is a quality book. . .' Reference Reviews This concise and clearly focused Dictionary, with contributions by the leading authorities in their fields, brings order and clarity to a topic that can suffer from confusion over terminology and concepts. It provides a bridge between the academic disciplines involved and illustrates the application of transportation policy that crosses a variety of administrative divisions.*

* http://books.google.ru/books?id=hBSrKGs2UC4C&dq=A+Dictionary+of+Transport+Analysis,+Edited+by+Kenneth+Button&hl=ru&source=gbsnavlinks_s
Freight transport and logistics operations have become so technically sophisticated that a whole language of generic terms, jargon, abbreviations and management buzzwords, to say nothing of legal terms and definitions, has been generated. The aim of this dictionary is to identify these terms and, in unambiguous English, provide accurate descriptions and definitions. The volume is endorsed by the Institute of Logistics and Transport, and covers both UK and EU terms.*

* http://books.google.ru/books?id=xCLimrZco1IC&dq=The+Dictionary+of+Transport+and+Logistics&hl=ru&source=gbsnavlinks_s
The Annual Report of Russian Railways for 2010 discloses information to provide the shareholder, represented by the Government of the Russian Federation, as well as government agencies, potential and actual investors, shippers, passengers and miscellaneous stakeholders and information users with comprehensive and relevant data on the operations of Russian Railways in 2010 and the Company’s development trends.

This report is an overview of the current situation of Russian Railways and the results of its operations for the year ended 31 December 2010 as well as the major trends which may have an impact on its future performance. *

The Annual Report of JSCo Russian Railways for 2011 discloses information to provide the shareholder represented by the Government of the Russian Federation, as well as government agencies, potential and actual investors, shippers, passengers and miscellaneous stakeholders and information users with comprehensive and relevant data on the operations of JSCo Russian Railways in 2011 and the Company’s development trends.

This report is an overview of the current situation of JSCo Russian Railways and the results of its operations for the year ended 31 December 2011 as well as the major trends which may have an impact on its future performance. For the purposes of this document, the word “Company”, the pronoun “we” and its various forms refer to JSCo Russian Railways.*
This report was prepared by the ECMT (The European Conference of Ministers of Transport is an intergovernmental organisation established by a Protocol signed in Brussels on 17 October 1953) as part of a wider programme of co-operation on regulatory reform between the OECD and the Government of Russia.

It was finalised following a meeting in January 2004 where senior officials from the Russian Government and the Russian Railways company discussed the reform of rail regulation in Russia with their peers from ECMT and OECD countries and with the team of experts that drafted the review.

The report examines the fundamental issues of regulation and their relation with the structure of the sector and the development of competition in providing rail services. This is the first in-depth review of rail policy in ECMT member countries in the light of the Resolution on the development of European railways agreed by Ministers in 2002.*
The combination of economic growth, improved standard of living, and urbanization has led to exponential growth in travel demand and related transportation investment in China during the past two decades. Plan, Build, and Manage Transportation Infrastructure in China contains 85 papers that were presented at the Seventh International Conference of Chinese Transportation Professionals (ICCTP), held in Shanghai, China in May 2007. The three main topics of these papers are: Transportation Planning and Policy, Traffic Operation and Safety, and Infrastructure/Pavement. This proceedings focuses on critical issues associated with planning, building, and managing the transportation infrastructure in China. It will be beneficial to transportation engineers and professionals.*

China Market Report presents research reports on each of the 100 major industries in Chinese market. For each industry, China Market Report provides concise analysis on market size, industry statistics, import and export, domestic hot regions as well as the market position of foreign companies in the industry. This report also includes two names of the top companies for each of the major industries. Market sectors covered by China Market Report: Energy, Food, Beverage, Agriculture, Automobile, Chemical, Clothing, Construction Material, Consumer Products, Environmental Protection, Furniture, IT, Machinery & Equipment, Metal, Pharmaceutical Content included by China Market Report for each of the 100 major industries...**
Purchase includes free access to book updates online and a free trial membership in the publisher’s book club where you can select from more than a million books without charge. Chapters: High-Speed Rail in Japan, High-speed trains of Japan, Named passenger Trains of Japan, Tram Transport in Japan, Shinkansen, Tokyo Toden, Hikari, List of Town Tramway Systems in Japan, Kodama, List of Named passenger Trains of Japan, Toden Arakawa Line, Twilight Express, Kinosaki, Skyliner, Sapporo Streetcar, Romancecar, Akatsuki, etc.


The content of this book primarily consists of articles available from Wikipedia or other free sources online. … The Shinkansen, new main line, also known as the bullet train, is a network of high-speed railway lines in Japan operated by four Japan Railways Group companies. Starting with the T kaid Shinkansen in 1964, the network has expanded to currently consist of 2,387.7 km (1,483.6 mi) of lines with maximum speeds of 240-300 km/h (149-186 mph), 283.5 km (176.2 mi) of Mini-shinkansen with a maximum speed of 130 km/h (81 mph) and 10.3 km (6.4 mi) of spur lines with Shinkansen services. The network presently links most major cities on the islands of Honshu and Kyushu, with construction of a link to the northern island of Hokkaido underway and plans to increase speeds on the T hoku Shinkansen up to 320 km/h (199 mph). Test runs have reached 443 km/h (275 mph) for conventional rail in 1996, and up to a world record 581 km/h (361 mph) for maglev trainsets in 2003. … Carrying 151 million passengers a year (March 2008), it has transported more passengers (over 4 billion, network over 6 billion) than any other high speed line in the world.*

Please note that the content of this book primarily consists of articles available from Wikipedia or other free sources online. Pages: 67. Chapters: High-speed railway lines of Germany, High-speed trains in Germany, InterCityExpress, Thalys, Eschede train disaster, Transrapid, Intercity-Express, ICE 1, Berlin-Hamburg Railway, List of Intercity-Express railway stations, Hanover-Berlin high-speed railway, Cologne-Frankfurt high-speed rail line, ... The brand name "ICE" is among the most well-known in Germany, with a brand awareness close to 100%, according to DB. There are currently 259 trainsets in five different versions of the ICE vehicles in use, named ICE 1 (deployed in 1991), ICE 2 (1996), ICE T (1999), ICE 3 (1999) and ICE TD (2001-2003, back in service 2007).*

* http://books.google.ru/books?id=2PI_bwAACAAJ&dq=High-Speed+Rail+in+Germany&hl=ru&ei=BJUPUozwMO334QSa1oDABQ&ved=0CDUQ6AEwAQ

Please note that the content of this book primarily consists of articles available from Wikipedia or other free sources online. Pages: 106. Chapters: German regional rail systems, High-speed rail in Germany, Named passenger trains of Germany, Railway coaches of Germany, Rapid transit in Germany, Tram transport in Germany, Thalys, U-Bahn, Leipzig Tramway Network History, Intercity-Express, List of town tramway systems in Germany, List of regional rail lines in North Rhine-Westphalia, S-Bahn, Train categories in Europe, Berlin tram, Cologne Stadtbahn, German railway wagon classes, Leipziger Verkehrsbetriebe, Schnellzug, BahnCard, Trams in Germany...**

** http://books.google.ru/books?id=QlS4s3nQhACE&dq=High-Speed+Rail+in+Germany&hl=ru&ei=yJMPUq6wHKas4AS33oHgCg&ved=0CF8Q6AEwBw
The content of this book primarily consists of articles available from Wikipedia or other free sources online. Pages: 23. Chapters: TGV, Intercity-Express, Transmission Voie-Machine.

Excerpt: The TGV (French: , meaning high-speed train) is France's high-speed rail service, currently operated by SNCF Voyages, the long-distance rail branch of SNCF, the French national rail operator. It was developed during the 1970s by GEC-Alsthom (now Alstom) and SNCF. … A TGV test train set the record for the fastest wheeled train, reaching 574.8 km/h (357.2 mph) on 3 April 2007. … Cities such as Tours have become a part of a "TGV commuter belt." In 2007, SNCF generated profits of 1.1 billion (approximately US$1.75 billion or 875 million) driven largely by higher margins on the TGV network.*

The content of this book primarily consists of articles available from Wikipedia or other free sources online. Pages: 46. Chapters: Silverlink, C2c, Thames Trains, London Overground, South West Trains, Chiltern Railways, …

Excerpt: London Overground (LO) is a suburban rail network in London and Hertfordshire. It has been operated by London Overground Rail Operations since 2007 as part of the National Rail network, under the franchise control and branding of Transport for London (TfL). From late 2012 a sixth line, the South London Line, will be incorporated into the Overground system. Rail services in Great Britain are mostly run on a system of rail franchises and operated by a number of private train operating companies, marketed together as National Rail.**
PERIODICALS:

1. RailwayPRO
   - the railway business magazine, web-site: www.railwaypro.com

2. Railway Gazette International
   - the railway business magazine, is published monthly by DVV Media UK Ltd and distributed in the USA by SPDSW, web-site: www.railwaygazette.com

3. Railvolution
   - the professional two-monthly magazine of rail transport worldwide, web-site: www.railvolution.net

4. Japan Railway & Transport Review
   - the English-language transport magazine published quarterly by East Japan Railway Culture Foundation, web-site: www.jrtr.net

   IRJ was launched in 1960 and started monthly publication in January 1961 as the world's first globally-distributed magazine for the railway industry.
INTERNET-SOURCES:


http://www.railwaysarchive.co.uk/ - official web-site of RailwaysArchive (the RA newsletter - 4037 documents, 8882 accidents).

http://www.railway-technology.com - internet-source with its blend of news, analysis and special in-depth reports, gets straight to the heart of issues affecting the working lives of people dealing with technology in the railway industry.


INTERNET-SOURCES:


http://www.db.de - official web-site of Deutsche Bahn AG.

http://www.rtri.or.jp/eng/rtri/brochure.html
- official web-site of Railway Technical Research Institute (RTRI). (RTRI was incorporated on December 10, 1986, just before the privatization and division of Japanese National Railways (JNR) and started operation to take over the research and development activities of JNR when Japan Railway (JR) Companies were established on April 1, 1987).