

Advanced Transport Systems: Analysis, Modeling, and Evaluation of Performances


By Milan Janić

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This book provides a systematic analysis, modeling and evaluation of the performance of advanced transport systems. It offers an innovative approach by presenting a multidimensional examination of the performance of advanced transport systems and transport modes, useful for both theoretical and practical purposes. Advanced transport systems for the twenty-first century are characterized by the superiority of one or several of their infrastructural, technical/technological, operational, economic, environmental, social and policy performances as compared to their conventional counterparts. The advanced transport systems considered include: Bus Rapid Transit (BRT) and Personal Rapid Transit (PRT) systems in urban area(s), electric and fuel cell passenger cars, high speed tilting trains, High Speed Rail (HSR), Trans Rapid Maglev (TRM), Evacuated Tube Transport system (ETT), advanced commercial subsonic and Supersonic Transport Aircraft (STA), conventionally- and Liquid Hydrogen (LH₂)-fuelled commercial air transportation, advanced Air Traffic Control (ATC) technologies and procedures for increasing the airport runway capacity, Underground Freight Transport (UFT) systems in urban area(s), Long Intermodal Freight Train(s) (LIFTs), road mega trucks, large advanced container ships and freight/cargo aircraft and advanced freight/goods collection distribution networks. This book is intended for postgraduates, researchers, professionals and policy makers working in the transport industry.

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Bibliography

- Sales Rank: #6009015 in Books
- Published on: 2014-01-12
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x .94" w x 6.14" l, 1.50 pounds
- Binding: Hardcover
- 408 pages

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Editorial Review

From the Back Cover

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About the Author

Dr MILAN JANI? is the transport and traffic engineer and planner. Currently, he is a Senior Researcher at Transport and Planning Department of the Faculty of Civil Engineering and Geosciences of Delft University of Technology (Department of Transport & Planning)(Delft, The Netherlands) and the Principal Scientist/Research Professor at the Faculty of Traffic and Transport Engineering of the University of Belgrade (Belgrade, Serbia). Previously, he was Senior Researcher and Research Program Leader at Department of Transport & Infrastructure of the OTB Research Institute for the Built Environment (Delft University of Technology) (Delft, the Netherlands). Previously, he had kept the posts of Senior Researcher at Manchester Metropolitan University (Manchester, the UK), Loughborough University (Transport Studies Group) (Loughborough, UK) and the Institute of Transport Research (Ljubljana, Slovenia).

Dr JANI? has been involved in transport-related research and planning projects at both national and international scale for almost 30 years. He has also published many scientific and academic transport-related papers and presented many at the national and international conferences dedicated to transport. In addition, he has published four books: “Greening Airports: Advanced Technologies and Operations” (2011), “Airport Analysis, Planning and Design: Demand, Capacity and Congestion” (2009), “The Sustainability of Air Transportation: A Quantitative Analysis and Assessment” (2007) and “Air Transport System Analysis and Modelling: Capacity, Quality of Services and Economics” (2000).

As well, Dr JANI? is a member of Editorial Boards of several transport research-related journals and the associations and conferences, the latest such as NECTAR (Network on European Communications and Transport Activity Research), Air Transport Research Society (ATRS), Airfield and Airspace Capacity and Delay Committee of TRB (Transportation Research Board) (Washington DC, USA) and Delft Aviation Centre (Delft University of Technology, Delft, the Netherlands).

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