

Milan Janić

# Advanced Transport Systems

Analysis, Modeling, and Evaluation  
of Performances

 Springer

# Advanced Transport Systems Analysis Modeling And Evaluation Of Performances

**David Baud**



## **Advanced Transport Systems Analysis Modeling And Evaluation Of Performances:**

**Advanced Transport Systems** Milan Janić, 2014-01-11 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 areas; electric and fuel cell passenger cars; high-speed tilting trains; High-Speed Rail (HSR); TransRapid; 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 areas; Long Intermodal Freight Trains (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.

*Transport Systems* Milan Janic, 2017-03-27 The transport sector consists of different modes of transport, each serving a growing demand for transporting people and goods. This growing demand, on the one hand, needs expanding the systems capacity, and on the other hand, increasing the corresponding economic efficiency, effectiveness, and environmental and social friendliness. This implies development of a greener, i.e., a more sustainable transport sector. The book describes the current and prospective state of the art: analytical modelling, conceptual planning, and multi-criteria evaluation of the selected cases of transport systems operated by different transport modes such as road, rail, sea, air, and intermodal. As such, the book is unique in addressing these three important aspects of dealing with transport systems before implementation of their particular components. Means by the selected cases, it will be particularly useful for readers from the academia and the professionals from the transport sector.

**Maritime Supply Chains** Thierry Vanelslander, Christa Sys, 2020-03-24 Maritime Supply Chains breaks the maritime chain into components, consistently relating them to the overall integrated supply chain. The book not only analyzes and provides solutions to frequently encountered problems and key operational issues; it also applies cutting-edge scientific techniques on the maritime supply chain. Sections consider shipping ports and terminals, hinterland, and the issues that intersect different parts of the chain. Readers will find discussions of the various actors at play and how they relate to the overall function of the supply chain. Finally, the book offers solutions to the most pressing problems, thus providing a unique, well-balanced account. Provides a comprehensive and integrative account of the maritime supply chain from shipping to port to hinterland. Cuts through the maritime supply chain to offer a transversal picture on how the chain functions. Applies rigorous analytical

techniques to give solutions to the most frequent and pressing challenges facing maritime supply chains Considers advances such as blockchain that are set to transform maritime supply chains **Marine Research** ,1969 *Marine Research, Fiscal Year 1968* National Council on Marine Resources and Engineering Development (U.S.),1969 **Scientific and Technical Aerospace Reports** ,1980 **Report of the Woods Hole Conference on Maritime Research and Development** ,1970 Transportation Engineering Dusan Teodorovic,Milan Janić,2016-09-13 Transportation Engineering Theory Practice and Modeling is a guide for integrating multi modal transportation networks and assessing their potential cost and impact on society and the environment Clear and rigorous in its coverage the authors begin with an exposition of theory related to traffic engineering and control transportation planning and an evaluation of transportation alternatives that is followed by models and methods for predicting travel and freight transportation demand analyzing existing and planning new transportation networks and developing traffic control tactics and strategies Written by an author team with over thirty years of experience in both research and teaching the book incorporates both theory and practice to facilitate greener solutions Contains worked out examples and end of the chapter questions Covers all forms of transportation engineering including air rail and public transit modes Includes modeling and analytical procedures for supporting different aspects of traffic and transportation analyses Examines different transport mode sand how to make them sustainable Explains the economics of transport systems in terms of users value of time Marine Research National Council on Marine Resources and Engineering Development (U.S.),1969 *Aeronautical Engineering* ,1991 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA Computer Simulation, 1951-1976 Per A. Holst,1979 **Energy Research Abstracts** ,1977 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes **NASA SP.** ,1991 **HRIS Abstracts** National Research Council (U.S.). Highway Research Board,1987 Annual Report Pennsylvania Transportation Institute,1990 *Aeronautical Engineering Review* ,1957 **An Introductory Guide to EC Competition Law and Practice** Valentine Korah,1994 **Information Networks and Data Communication** Pedro Veiga,Dipak Khakhar,1994 A broad spectrum of topics in the field of information networks and data communications are discussed in this publication Contributions sourced from renowned experts consider in particular network applications network protocols high speed networking network management performance measurement and network security **Government Reports Annual Index** ,1994 Sections 1 2 Keyword Index Section 3 Personal author index Section 4

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