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Vukan R. Vuchic ( Serbian: Vukan R. Vu\u0107i\u0107, Serbian Cyrillic: Вукан Р. Вучић; born 14 January 1935) is a public transport expert, a professor of the University of Pennsylvania, and a former consultant to the United States Department of Transportation on the planning, design and operation of transport systems. In 1994, he was elected a member of the Serbian Academy of Sciences and Arts.

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This is the only current and in print book covering the full field of transit systems and technology. Beginning with a history of transit and its role in urban development, the book proceeds to define relevant terms and concepts, and then present detailed coverage of all urban transit modes and the most efficient system designs for each. Including coverage of such integral subjects as travel time, vehicle propulsion, system integration, fully supported with equations and analytical methods, this book is the primary resource for students of transit as well as those professionals who design and operate these key pieces of urban infrastructure.

The twenty-first century finds civilization heavily based in cities that have grown into large metropolitan areas. Many of these focal points of human activity face problems of economic inefficiency, environmental deterioration, and an unsatisfactory quality of life—problems that go far in determining whether a city is "livable." A large share of these problems stems from the inefficiencies and other impacts of urban transportation systems. The era of projects aimed at maximizing vehicular travel is being replaced by the broader goal of achieving livable cities: economically efficient, socially sound, and environmentally friendly. This book explores the complex relationship between transportation and the character of cities and metropolitan regions. Vukan Vuchic applies his experience in urban transportation systems and policies to present a systematic review of transportation modes and their characteristics. Transportation for Livable Cities dispels the myths and emotional advocacies for or against freeways, rail transit, bicycles, and other modes of transportation. The author discusses the consequences of excessive automobile dependence and shows that the most livable cities worldwide have intermodal systems that balance highway and public transit modes while providing for pedestrians, bicyclists, and paratransit. Vuchic defines the policies necessary for achieving livable cities: the effective implementation of integrated intermodal transportation systems.

This unique book explains how to think systematically about public transportation through the lens of physics models. The book includes aspects of system design, resource management, operations and control. It presents both, basic theories that reveal fundamental issues, and practical recipes that can be readily used for real-world applications. The principles conveyed in this book cover not only traditional transit modes such as subways, buses and taxis but also the newer mobility services that are being enabled by advances in telematics and robotics.Although the book is rigorous, it includes numerous exercises and a presentation style suitable for senior undergraduate or entry-level graduate students in engineering. The book can also serve as a reference for transportation professionals and researchers keen in this field.

Public transport operators are faced with ever-greater pressures. The need to monitor the performance of individual services, as well as the system as a whole, has increased. Operators are constantly looking for methods which can improve both the service to the passenger and the cost-effectiveness of their operation. This new book offers the reader new solutions to deliver both better services and greater efficiency, solutions that have been developed and tested by the author in real-life situations for mass transit operators all over the world. Based on a wealth of experience built up over 30 years working for and with public transport operators, Public Transit Planning and Operation offers crucial insights.

Cities across the globe are looking to develop affordable, environmentally friendly, and socially responsible transportation solutions that can meet the accessibility needs of expanding metropolitan populations and support future economic and urban development. When appropriately planned and properly implemented as part of a larger public transportation network, urban rail systems can provide rapid mobility and vital access to city centers from surrounding districts. High-performing urban rail services, when carefully approached as development projects, can help enhance quality of life by giving citizens access to employment opportunities, essential services, urban amenities, and neighboring communities. The purpose of this Handbook is to synthesize and disseminate knowledge to inform the planning, implementation, and operations of urban rail projects with a view towards: -- Emphasizing the need for early studies and project planning; -- Making projects more sustainable (economically, socially, and environmentally); -- Improving socioeconomic returns and access to opportunities for users; -- Maximizing the value of private participation, where appropriate; and -- Building capacity within project implementing and managing institutions This Handbook

provides experiential advice to tackle the technical, institutional, and financial challenges faced by decision makers considering urban rail projects. It brings together the expertise of World Bank staff and the input of numerous specialists to synthesize international 'good practices' and recommendations that are independent of commercial, financial political, or other interests. The material presented is intended as an honest-broker guide to maximize the impact and manage the challenges of urban rail systems in cities in both developed and developing countries. Rather than identify a single approach, this Handbook acknowledges the complexities and context necessary when approaching an urban rail development by helping to prepare decision makers to ask the right questions, consider the key issues, perform the necessary studies, apply adequate tools, and learn from international good practice all at the right time in the project development process.

Collecting fares through "smart cards" is becoming standard in most advanced public transport networks of major cities around the world. Travellers value their convenience and operators the reduced money handling fees. Electronic tickets also make it easier to integrate fare systems, to create complex time and space differentiated fare systems, and to provide incentives to specific target groups. A less-utilised benefit is the data collected through smart cards. Records, even if anonymous, provide for a much better understanding of passengers' travel behaviour as current literature shows. This information can also be used for better service planning. Public Transport Planning with Smart Card Data handles three major topics: how passenger behaviour can be estimated using smart card data, how smart card data can be combined with other trip databases, and how the public transport service level can be better evaluated if smart card data is available. The book discusses theory as well as applications from cities around the world and will be of interest to researchers and practitioners alike who are interested in the state-of-the-art as well as future perspectives that smart card data will bring.

Public transit is a powerful tool for addressing a huge range of urban problems, including traffic congestion and economic development as well as climate change. But while many people support transit in the abstract, it's often hard to channel that support into good transit investments. Part of the problem is that transit debates attract many kinds of experts, who often talk past each other. Ordinary people listen to a little of this and decide that transit is impossible to figure out. Jarrett Walker believes that transit can be simple, if we focus first on the underlying geometry that all transit technologies share. In Human Transit, Walker supplies the basic tools, the critical questions, and the means to make smarter decisions about designing and implementing transit services. Human Transit explains the fundamental geometry of transit that shapes successful systems; the process for fitting technology to a particular community; and the local choices that lead to transit-friendly development. Whether you are in the field or simply a concerned citizen, here is an accessible guide to achieving successful public transit that will enrich any community.

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