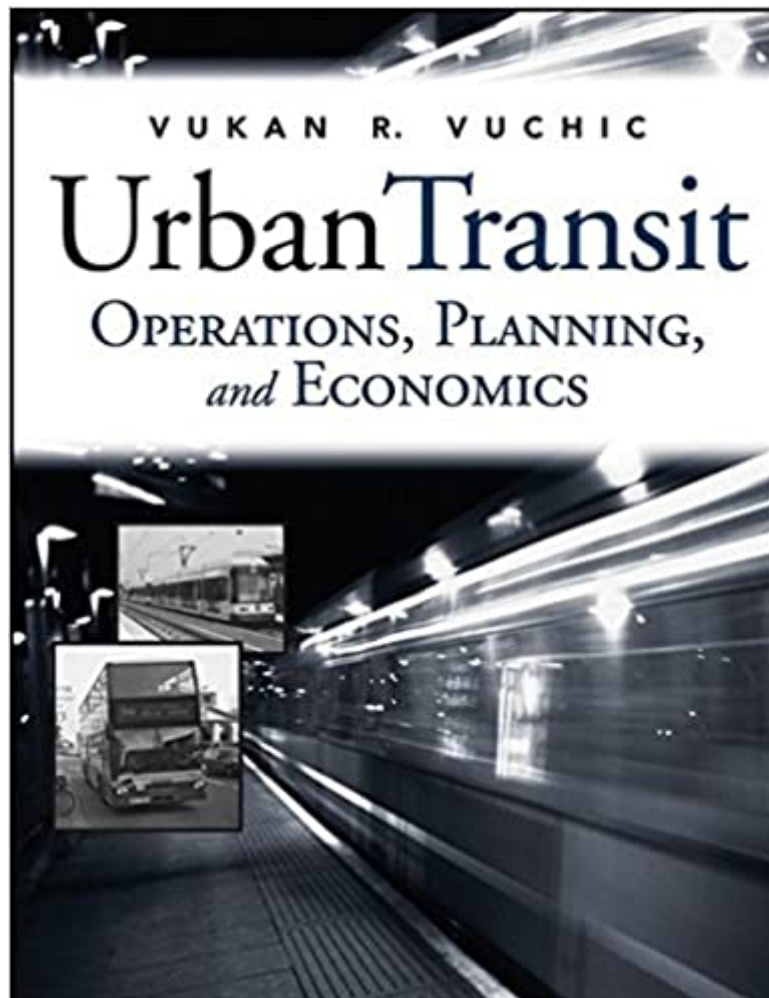




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Urban Transit : Operations, Planning And Economics



Synopsis

The only modern text to cover all aspects of urban transit operations, planning, and economics Global in scope, up-to-date with current practice, and written by an internationally renowned expert, *Urban Transit: Operations, Planning, and Economics* is a unique volume covering the full range of issues involved in the operation, planning, and financing of transit systems. Presenting both theoretical concepts and practical, real-world methodologies for operations, planning and analyses of transit systems, this book is a comprehensive single-volume text and reference for students as well as professionals. The thorough examination of technical fundamentals and management principles in this book enables readers to address projects across the globe despite nuances in regulations and laws. Dozens of worked problems and end-of-chapter exercises help familiarize the reader with the formulae and analytical techniques presented in the book's three convenient sections: Transit System Operations and Networks Transit Agency Operations, Economics, and Organization Transit System Planning Visually enhanced with nearly 250 illustrations, *Urban Transit: Operations, Planning, and Economics* is a reliable source of the latest information for transit planners and operators in transit agencies, metropolitan planning organizations, city governments, consulting firms as well as students of transportation engineering and city planning at universities and in professional courses.

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"In a unique approach, this comprehensive book provides an integration of theoretical concepts,

analytical methods and practical solutions that transit operators and planners need." (Public Transport International, May 2005) "à essential knowledge for someone planning a transport system." (Tramways & Urban Transit, September 2007)

The only modern text to cover all aspects of urban transit operations, planning, and economics Global in scope, up to date with current practice, and written by an internationally renowned expert, Urban Transit: Operations, Planning, and Economics is a unique volume covering the full range of issues involved in the operation, planning, and financing of transit systems. Presenting both theoretical concepts and practical, real-world methodologies for operations, planning, and analyses of transit systems, this book is a comprehensive single-volume text and reference for students and professionals. The thorough examination of technical fundamentals and management principles in this book enables readers to address projects across the globe despite nuances in regulations and laws. Dozens of worked problems and end-of-chapter exercises help familiarize the reader with the formulae and analytical techniques presented in three convenient sections: Transit System Operations and Networks Transit Agency Operations, Economics, and Organization Transit System Planning Visually enhanced with nearly 250 illustrations, Urban Transit: Operations, Planning, and Economics is a reliable source of the latest information for transit planners and operators in transit agencies, metropolitan planning organizations, city governments, and consulting firms, as well as students of transportation engineering and city planning at universities and in professional courses.

Great Book. Highly Recommended for those that are beginning to enter in the world of urban and transportation planning.

How to plan an urban transit system of buses and trains? Vuchic offers a text suitable to accompany an undergraduate course in urban planning. It describes many aspects of transit. Like the ability to have articulated buses that have capacities 50% greater than standard buses. By using these on dedicated bus lanes, overall transit capacity can be enhanced. We see how multiple public agencies need to cooperate, to let such methods achieve optimal potential. Rail transit is extensively studied. Including the all-important aspect of scheduling. There is some maths required of the student. But the text is not a fully fledged foray into scheduling theory. Chapters have numerous exercises that help the reader gain some fluency in understanding scheduling. Another related aspect is the geometry of transit lines. How to best lay out these lines. We see that there are systematic mathematical ideas that can be applied. It's not just some qualitative handwaving.

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